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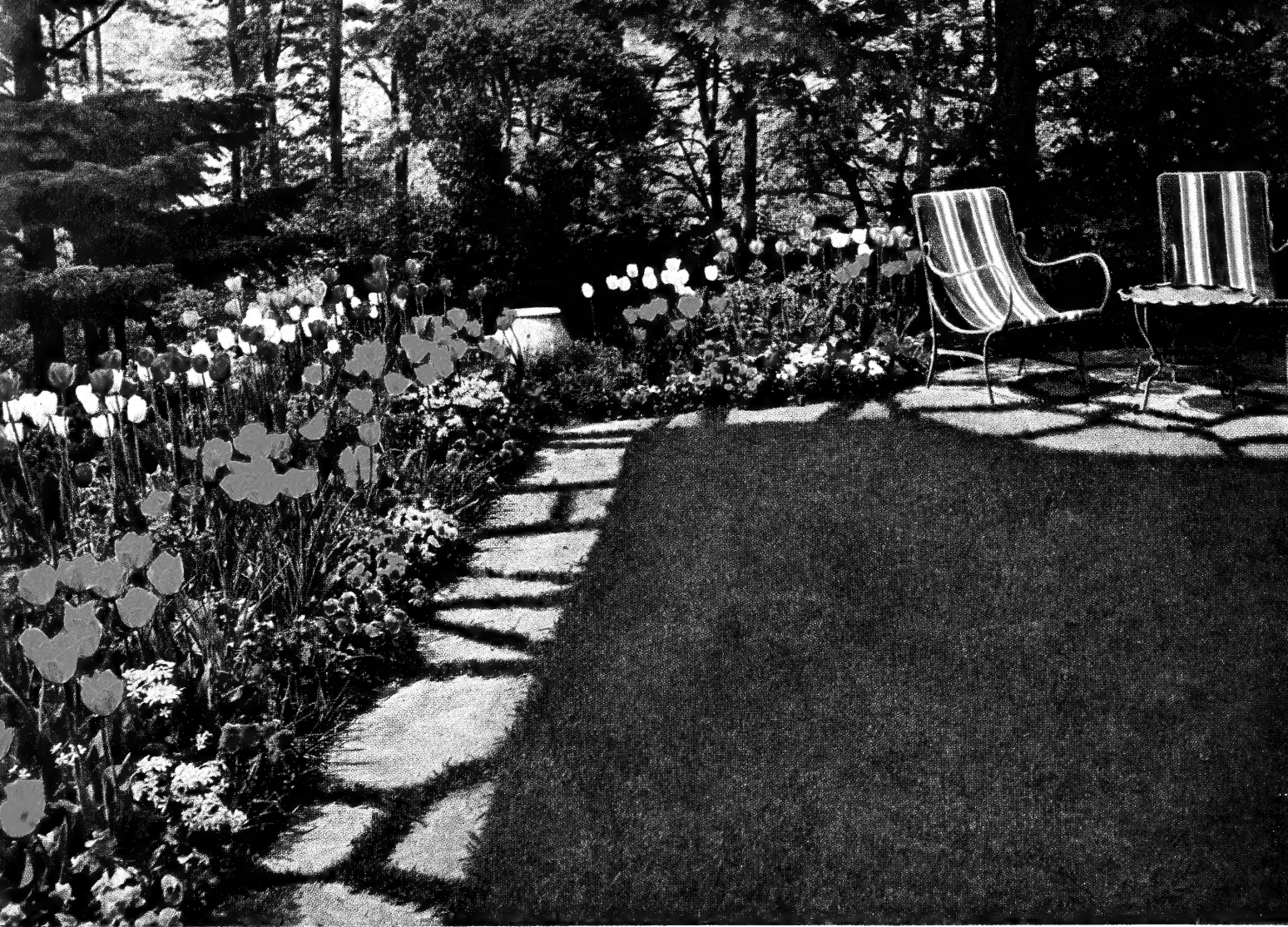
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1951



McCullough's
GARDEN BOOK



You Too--Can Have A Beautiful Lawn

START RIGHT! SOW McCULLOUGH'S LAWN SEED

Be sure the soil has good drainage and the seed bed is fine, smooth and mellow. Careful consideration should be given to the kind of seed used. The cost of the seed represents the smallest part of the investment. It is false economy to save a few cents by purchasing lawn seed from a questionable source, only to be annoyed later by repatching a weedy turf or being required to do the entire work over.

Select a calm day and sow half the quantity one way and the remaining half at right angles. Seed at the rate of 1 pound to 200 square feet on new lawns or 100 to 150 pounds per acre. It requires about one-half as much seed for an established lawn. A thick sod is the best protection against weeds. The seed should be covered by light raking and a top dressing of peat moss or humus. The lawn is then ready for rolling. If watering is necessary, use a fine spray to prevent washing.

McCullough's Acme Superfine LAWN SEED

As the name implies, this mixture is the finest that modern seed-cleaning machinery can produce. Over 99.90 percent free from weeds. It contains only the plump seeds which produce the strong, healthy plants. It is a scientific combination of extra heavy Kentucky Blue Grass, Fancy Red Top and Creeping Bent. All deep-rooted permanent grasses, free from any coarse grasses. Truly the best lawn seed obtainable.

Lb. \$1.50; 3 lbs. \$4.35; 5 lbs. \$7.00; 10 lbs. \$14.00; 20 lbs. \$26.00; 25 lbs. \$32.50.

McCullough's Emerald LAWN SEED

Our standard mixture that has proved satisfactory to our customers over a period of many years. Produces a good, clean, permanent turf. Composed of re-cleaned Kentucky Blue Grass, Fancy Red Top, Creeping Red Fescue, White Clover and other fine grasses all carefully blended. **Emerald** will give satisfaction.

Lb. \$1.30; 3 lbs. \$3.80; 5 lbs. \$6.25; 10 lbs. \$12.50; 20 lbs. \$24.00; 25 lbs. \$30.00.

ALL SEEDS WE SELL ARE TESTED FOR PURITY AND GROWING QUALITIES FOR YOUR PROTECTION

McCULLOUGH'S LAWN SEED

McCULLOUGH'S QUEEN CITY

This reliable, time-tested mixture is composed of Blue Grass, Red Top, Rye Grass and White Clover. It can be depended on to produce a beautiful and permanent lawn.

Lb. \$1.00; 3 lbs. \$2.90; 5 lbs. \$4.75; 10 lbs. \$9.50; 20 lbs. \$16.90.

McCULLOUGH'S SHADY NOOK

Many beautiful lawns are marred by bare spots under trees, shrubbery, and near buildings. Shady Nook is composed of an excellent selection of fine grasses that will withstand such conditions better than those in our other mixtures. It is important that soil fertility and moisture supply is plentiful in places getting but little sunshine.

Lb. \$1.20; 3 lbs. \$3.50; 5 lbs. \$5.75; 10 lbs. \$11.50; 25 lbs. \$27.50.

McCULLOUGH'S TERRACE MIXTURE

For high situations where dryness and poor soil are conditions to be contended with. It is composed of grasses that should succeed under these conditions and produce a good turf.

Lb. \$1.30; 3 lbs. \$3.80; 5 lbs. \$6.25; 10 lbs. \$12.50; 20 lbs. \$24.00.

McCULLOUGH'S WOODLAND SHADE

Our selection of grasses that will tolerate shade. Composed of Creeping Red Fescue, Perennial Rye Grass, Red Top and Blue Grass. Lb. 90c; 3 lbs. \$2.60; 5 lbs. \$4.25; 10 lbs. \$8.50; 20 lbs. \$15.60; 25 lbs. \$19.50.



McCULLOUGH'S LAWN SEED MIXTURES
DELIVERED TRANSPORTATION PREPAID

BUILD A FINE LAWN

With G & F 10-6-4

This lawn food high in nitrogen (10%) will produce a lawn of beauty. Use 1 pound per 100 square feet instead of 3 to 4 pounds, as required by other general-purpose fertilizers. 25-lb. bag \$1.95 (will feed 2500 square feet or a space 50 x 50 feet).

100-lb. bag \$6.00.

WEDO

A double-acting, balanced formula of lawn food plus weed killer 2,4-D. One application feeds grass and controls weeds. Just spread it on your lawn. Apply 1½ to 2 pounds per 100 square feet (10 x 10 feet).

7½ lbs... (Treats 500 sq. ft. (25x20 ft.)) \$1 00

25 lbs... (Treats 1600 sq. ft. (100x16 ft.)) 2 75

50 lbs... (Treats 3200 sq. ft. (100x32 ft.)) 4 95

100 lbs... (Treats 6400 sq. ft. (100x64 ft.)) 7 95

SPREADERS

A spreader will pay for itself not only in the amount of seed and fertilizer saved but in the time needed to apply it. Easily set to apply correct amount of seed, lawn food and Wedo.

	Capacity	Width	
51 BR.....	20 to 25 lbs.	18 in.	\$8 40
51 JR.....	45 to 50 lbs.	18 in.	11 35
51 Standard.	80 to 90 lbs.	24 in.	32 75
51 Special...	110 to 120 lbs.	36 in.	42 70

More Plant Feeding Value with AGRICO



AGRICO for LAWNS TREES and SHRUBS 6-10-4

5 lbs.....	\$0 45
10 lbs.....	80
25 lbs.....	1 60
50 lbs.....	2 65
100 lbs.....	4 25

AGRICO-the Nation's Leading Fertilizer



VIGORO

Complete Plant Food for Lawns, Trees, Shrubs, Flowers and Vegetables 6-10-4

5 lbs.....	\$0 50
10 lbs.....	90
25 lbs.....	1 60
50 lbs.....	2 65
100 lbs.....	4 25

SPECIAL LAWN OFFER

25 lbs. Lawn Fertilizer (G and F 10-6-4) \$1 95
5 lbs. Emerald Lawn Seed..... 6 25

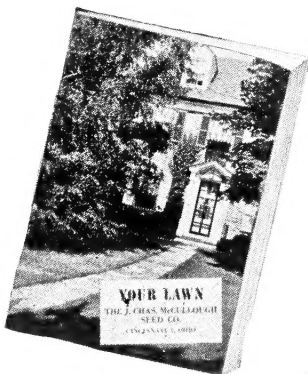
Value \$8 20
FOR ONLY \$7 25

Will seed and feed 2500 square feet of lawn
(50 x 50 ft.)

100 lbs. Lawn Fertilizer (G and F 10-6-4) \$6 00
20 lbs. Emerald Lawn Seed..... 24 00

Value \$30 00
FOR ONLY \$26 00

Will seed and feed 10,000 square feet of
lawn (100 x 100 ft.)



WEEDONE

THE NEW IMPROVED WEEDONE. Contains powerful 2, 4, 5-T and 2,4-D, the two most effective chemicals for killing lawn weeds, poison ivy, poison oak, plantain, honeysuckle, dandelion and over 90 other weeds and woody plants. Non-poisonous to animals or humans. Won't hurt ordinary lawns.



8-oz. can.....	\$1 00
1 qt.....	2 75
1 gal.....	6 95

McCULLOUGH'S TURF GRASSES

BENT, ASTORIA, HIGHLAND or COLONIAL. (*Agrostis tenuis*). Excellent all-round Bent for lawns, greens, parks and playing fields. Grows on a wide range of soils; creeps mainly by underground root stalks or rhizomes, making a deep reinforced sod. It seldom produces many stolons or surface runners, thus lessening the amount of top dressing and watering. Sow about 3 pounds to 1000 square feet.

Lb. \$1.75; 3 lbs. \$5.15; 25 lbs. \$42.00.

BENT, SEASIDE OR COOS COUNTY (*Agrostis maritima*). A superlative Bent for putting greens and lawns. Ranks high by U. S. Golf Association for putting surface, producing a luxuriant matted growth. It is one of the most vigorous, stoloniferous creepers, although this characteristic does not usually show up till the second year, after which it makes a fine turf of uniform color and texture. Sow about 3 pounds to 1000 square feet.

Lb. \$1.75; 3 lbs. \$5.15; 25 lbs. \$42.00.

BENT, VELVET (*Agrostis canina*). Raritan strain is disease resistant and makes a beautiful turf of extra fine texture. Pale green.

BERMUDA (*Cynodon dactylon*). 35 pounds per bushel. A vigorous creeper used principally in the South. Can also be used as an annual grass in the North.

Lb. \$1.00; 5 lbs. \$4.50.

BERMUDA U-3. This is a fine-bladed strain of Bermuda Grass.

BLUE GRASS, KENTUCKY (*Poa pratensis*). A most valuable grass for lawn and permanent pasture on good soils without alkaline reaction. For lawns, it is best combined with other grasses which develop more rapidly, as Blue Grass takes several seasons to establish.

Lb. \$1.10; 3 lbs. \$3.25; 5 lbs. \$5.25; 10 lbs. \$10.50; 20 lbs. \$19.00; 25 lbs. \$23.75.

BLUE GRASS, MERION (B-27). More heat and drought resistant than common blue grass, tolerates closer mowing and establishes itself more quickly. When common Blue Grass turns yellow in hot weather B-27 will hold a richer green color. One ounce of seed sown in rows will produce quantities of seed.

Grow your own—Seed is scarce. App. 140,000 Seeds per oz. Postpaid 50c oz. Limit 4 ounces to a customer.

BLUE GRASS, CANADIAN (*Poa compressa*). 14 pounds per bushel. For general use, inferior to Kentucky Blue Grass.

POA TRIVIALIS (Rough-Stalked Meadow). 14 pounds per bushel. This grass is known as "The Blue Grass of the Shade," being particularly adapted for shady places. Same family and characteristics as Blue Grass. Makes exceptionally attractive, bright green turf. For lawns sow 5 pounds per 1000 square feet.

Lb. \$1.00; 3 lbs. \$2.75; 5 lbs. \$4.50; 25 lbs. \$20.50.

FESCUE, ALTA (*Festuca elatior*). 30 pounds per bushel. An improved strain of tall Fescue, deep-rooted, hardy perennial that is adapted to a wide variety of soils and climate. In addition to its forage value, is excellent for airport and athletic turf. Seed for pasture 14 to 18 pounds and turf at 30 to 40 pounds per acre.

Lb. 90c.; 3 lbs. \$2.65; 5 lbs. \$4.25; 25 lbs. \$20.00.

FESCUE, CHEWINGS (*Festuca rubra* var. *fallax*). 24 pounds per bushel. This fine-leaved grass produces a bright green turf, especially well adapted for tree shade, on account of its drought resistance. Sow 5 pounds per 1000 square feet.

Lb. \$1.00; 5 lbs. \$4.80; 25 lbs. \$23.25.

FESCUE, CREEPING RED (*Festuca rubra*). 24 pounds per bushel. A creeping turf-forming grass, ideal for use on lawns, golf courses, airports, and permanent pastures.

Lb. \$1.00; 5 lbs. \$4.80; 25 lbs. \$23.25.

FESCUE, ILLAHEE. One of the improved strains withstanding heavy wear; creeps vigorously. Thrives on all types of soil, even on dry, sandy bottom land. Forms a thick turf, crowding out weeds and fighting dandelion. Color deep green, with fine needle-like leaves and a strong creeping root system. Especially valuable in shady places. Recovers quickly from drought; keeps its color the year around and does not winter-kill even in the Canadian Northwest. Sow 5 pounds per 1000 square feet.

Lb. \$1.10; 5 lbs. \$5.30; 25 lbs. \$25.15.

FESCUE, KENTUCKY 31. (*Festuca elatior* var. *arundinacea*). A local strain of tall Fescue having similar characteristics to Alta Fescue. Its principal difference is its ability to withstand certain diseases that are prevalent in the Central States area. Excellent for hill and areas unable to support Blue Grass, Orchard Grass, etc. Sow 14 to 18 pounds per acre.

Lb. 90c; 5 lbs. \$4.25; 25 lbs. \$20.00.

FESCUE, MEADOW or ENGLISH BLUE. (*Festuca elatior*). 24 pounds per bushel. Sometimes known as Evergreen Grass. Used largely for permanent pasture. 24 pounds per acre is required if sown alone, or in mixtures, 12 to 18 pounds.

Lb. 50c; 5 lbs. \$2.20.

ORCHARD GRASS (*Dactylis glomerata*). 14 pounds per bushel. Particularly suited to upland, loamy or moderately stiff soil. Requires 1½ to 2 bushels per acre; if with Red Clover, 1 to 1½ bushels of Orchard Grass to 5 or 6 pounds of Red Clover. For seed, the same quantity of Red Clover and ¾ bushel of Orchard Grass.

SPECIAL MIXTURES

PLAYGROUND AIRPORT
CEMETERY ATHLETIC FIELD
FAIRWAY TEE
Prices on Request

RED TOP, ORDINARY or UNHULLED (*Agrostis alba*). 14 pounds per bushel. Sow at the rate of 30 pounds per acre. See Fancy Red Top.

RED TOP, FANCY RECLEANED (*Agrostis alba*). 30 pounds per bushel. Used as one of the principal ingredients in lawn seed mixtures. Also splendid for pasture, making a fair hay crop. Requires 6 to 8 pounds alone, or 3 to 4 pounds to acre in mixtures. For lawns, 4 pounds per 1000 square feet.

Lb. 90c; 5 lbs. \$4.25.

RYE GRASS, DOMESTIC. 24 pounds per bushel. Also known as Western Rye Grass. It is inclined to be a quick-growing annual, valuable in lawn mixtures as a nurse crop; succeeds well on almost any type of soil. Valuable in south central states for winter pasture. Sow 20 pounds per acre.

Lb. 25c; 5 lbs. \$1.15; 25 lbs. \$5.50.

RYE GRASS, PERENNIAL (*Lolium perenne*). 24 pounds per bushel. Often called English Rye Grass. A quick-growing grass most suitable for mixtures, pastures, hay and lawns. Succeeds well on almost any soil not water logged and affords good, quick nutritious grazing. If alone, requires 1½ bushels per acre. In mixtures, from 2 to 3 pecks per acre.

Lb. 35c; 5 lbs. \$1.65; 25 lbs. \$7.50.

TALL MEADOW OAT GRASS (*Arrhenatherum elatius*). 11 pounds per bushel. A very fine grass which is suitable for uplands soils and especially valuable for mixture with Orchard Grass. Requires alone 1½ to 2 bushels per acre; in mixture from ½ to ¾ bushel.

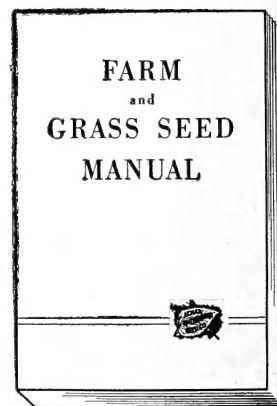
TIMOTHY (*Phleum pratense*). 45 pounds per bushel. It is the most desirable of all grasses for hay. Requires alone, 1 peck per acre; if with Clover, 8 pounds Timothy and 5 to 6 pounds of Clover.

WHITE DUTCH CLOVER (*Trifolium repens*). A valuable creeping legume for use in lawn and pasture mixtures, or sown as a straight crop.

½ lb. 70c; 1 lb. \$1.30; 5 lbs. \$6.25.

ZOYSIA JAPONICA (Japanese Lawn Grass)

This desirable cushiony turf is disease free, insect free, and heat, drought and cold tolerant. Its rate of upright growth is slow, and its wear resistance is high. It probably will be most popular in the transition zone between the Bermuda Grass of the South and Kentucky Blue Grass of the North. Being very dominant during the crabgrass season, it should be helpful in removing crabgrass from the turf. It is propagated vegetatively.



This new edition, written by William E. Ward presents a wealth of up-to-date information on Farm and Grass seeds. 148 Pages—120 Photographs and Illustrations.

Describes all varieties of Grasses giving History, Description, Adaptation, Culture and uses. Control of Turf Pests and diseases, Weed controls. \$1.00 Postpaid.

PRICES ON ALL GRASS SEEDS are subject to market changes. We will be pleased to quote firm prices on request. Orders entrusted to us will be filled at the lowest price on the day received.

McCullough's Quality Vegetable Seeds



All-America Selections

Some varieties of vegetable and flower seeds are listed as being All-America Selections. These awards are made each year by a committee of seedsmen. The twelve or more judges grow identical samples in scattered areas. They then vote Gold Medal, Silver Medal, Bronze Medal and Honorable Mention Awards. Distinctiveness from old varieties is considered, as well as value for home or commercial culture.

BEANS

Bush or Dwarf Varieties

Most of our Dwarf or Bush Beans are Idaho grown. They are from select seed stock and are of excellent quality.

Culture. If planted every two or three weeks, commencing after all danger of frost has passed and continuing until about August 15, Beans should keep on producing all summer. For field culture plant in rows $2\frac{1}{2}$ feet apart, dropping the Beans 3 to 4 inches apart in the rows, and covering with about 2 inches of soil. In small gardens, rows may be 18 inches apart. Up to the time of blooming, cultivate often, but never while the vines are wet, and do not disturb the roots, especially after blooming; otherwise they will blight and the crop will be reduced. Constant picking extends bearing.

A pound plants about 100 feet of row, 60 pounds an acre. A half pound planted every three weeks is sufficient for a medium-sized garden.

MATURITY DATES following variety names are average days from sowing time until vegetable is ready for use.

● Suitable for freezing

PLAN NOW • PLANT EARLY

BEANS, Green Podded

2 TOPCROP. ● (53 days.) Shown in color, page 11. Immune to common Bean mosaic and greasy or shiny pod virus. The plant is 15 to 16 inches high, with 23-inch spread. Pods are round, 6 inches long, straight to slightly curved, stringless. Excellent for canning and freezing. 1950 All-America Gold Medal Winner.
Pkt. 25c; $\frac{1}{2}$ lb. 45c; lb. 85c; 5 lbs. \$3.75.

3 TENDERGREEN. ● (53 days.) Stringless. One of the very best of the round, green-podded Beans. Fleshy pods about 6 inches long, strictly stringless and of fine quality. Very productive and closely resembles an improved Full Measure Bean.
Pkt. 25c; $\frac{1}{2}$ lb. 40c; lb. 75c; 5 lbs. \$3.50.

4 STRINGLESS RED VALENTINE. (52 days.) An improved Red Valentine generally used for home gardens. Pods $4\frac{1}{2}$ inches long, round and stringless. Plant grows 16 to 19 inches tall. Excellent quality.
Pkt. 20c; $\frac{1}{2}$ lb. 35c; lb. 65c; 5 lbs. \$3.00.

5 STRINGLESS GREEN POD. ● (50 days.) A very handsome, long, cylindrical, green Bean. Pods larger and straighter than those of Valentine. Very fleshy, remaining crisp and tender longer. Productive bush of vigorous growth. A desirable sort for home gardens; largely grown for market.
Pkt. 20c; $\frac{1}{2}$ lb. 35c; lb. 60c; 5 lbs. \$2.75.

6 GIANT STRINGLESS GREEN POD.

● (53 days.) A highly productive and very handsome sort. Vines vigorous, spreading. Pods large, round.

Pkt. 20c; $\frac{1}{2}$ lb. 35c; lb. 60c; 5 lbs. \$2.75.

7 DWARF HORTICULTURAL. (52 days.) Valuable for snap Beans or shelling. Vines are productive, compact and upright in growth. Pods are 5 to 6 inches long, broad, thick, curved and have splashes of bright red on yellowish green.
Pkt. 20c; $\frac{1}{2}$ lb. 35c; lb. 65c; 5 lbs. \$3.00.

8 LONG-PODDED DWARF HORTICULTURAL. (52 days.) Same as above but the longer pods have a string and contain one or two more Beans.

Pkt. 20c; $\frac{1}{2}$ lb. 35c; lb. 65c; 5 lbs. \$3.00.

9 FULL MEASURE. ● (53 days.) A very desirable round-podded variety with pods about $6\frac{1}{2}$ inches long, which are solid, meaty, brittle and stringless.

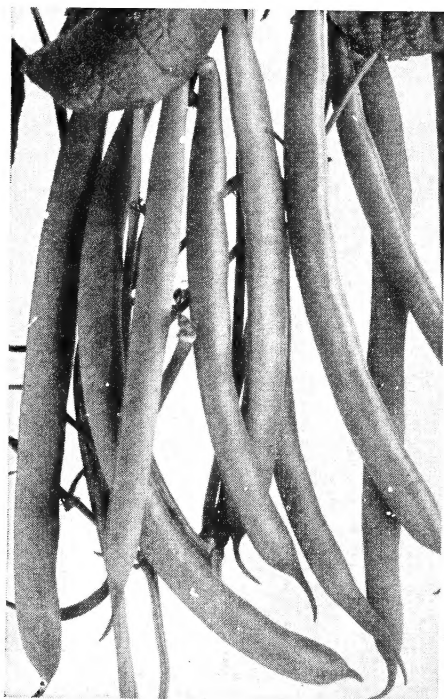
Pkt. 20c; $\frac{1}{2}$ lb. 35c; lb. 65c; 5 lbs. \$3.00.

10 TENNESSEE GREEN POD. (49 days.) A dwarf, early snap Bean; very hardy. Vines are large, somewhat spreading, prolific. Pods are very long (often 6 to 7 inches), flat, irregular in shape, of dark and vivid green.

Pkt. 20c; $\frac{1}{2}$ lb. 35c; lb. 65c; 5 lbs. \$3.00.

11 BOUNTIFUL. (48 days.) An improved long Yellow Six Weeks; earlier, very much larger and more tender. It is very hardy, prolific, and bears continuously for several weeks. Pods are flat, stringless, rich green, large and handsome.

Pkt. 20c; $\frac{1}{2}$ lb. 35c; lb. 60c; 5 lbs. \$2.75.



3 Tendergreen Beans

BEANS, Green Podded, continued

12 SULPHUR or BRIMSTONE. (55 days.) Has a distinct flavor that is highly esteemed by gardeners. Not stringless but a good bearer and remains tender till the pods are quite far advanced.

Pkt. 20c; ½lb. 35c; lb. 65c; 5 lbs. \$3.00.

13 IDAHO REFUGEE. (68 days.) Resistant to yellow mosaic and common Bean mosaic. Vine 14 to 18 inches tall; pods round, straight, 5½ inches long, medium green. A choice canning strain of high quality.

Pkt. 25c; ½lb. 40c; lb. 75c; 5 lbs. \$3.50.

14 DIXIE WHITE STRINGLESS. (52 days.) Vines light green, 18 inches high. Pods light green, 4 inches long, round, stringless when young. Excellent as a dry shell Bean; fine flavor.

Pkt. 25c; ½lb. 40c; lb. 75c; 5 lbs. \$3.50

15 TENDERLONG NO. 15. (53 days.)

This is a new improved Tendergreen. In many sections is resistant to mosaic. Quality and yield excellent. Well recommended.

Pkt. 25c; ½lb. 40c; lb. 75c; 5 lbs. \$3.50

BEANS, Dwarf Wax

16 PENCIL POD BLACK WAX. (54 days.) Pods are about 4½ inches long, slightly curved, round, very brittle and tender. They are very fleshy, clear golden yellow and remain tender a long time. Fine for home and market.

Pkt. 20c; ½lb. 35c; lb. 65c; 5 lbs. \$3.00.

17 IMPROVED GOLDEN WAX. (50 days.) An early-maturing variety, very productive. Vines erect, compact, bearing pods well off the ground. Pods nearly straight, broad, flat, golden yellow, very fleshy and waxlike, usually 4½ to 5 inches long. A good sort for home garden, either for table use or pickling.

Pkt. 20c; ½lb. 35c; lb. 65c; 5 lbs. \$3.00.

BEANS, Field or Bush Shell

Culture. Plant in rows about 2½ feet apart, following instructions given for dwarf or bush Beans. Shell Beans should be left on plant until pods are matured. May be used either as green pods or dried shell Beans.

A packet sows about 25 feet of row, a pound 150 feet, ½ bushel an acre.

18 GREAT NORTHERN. (90 days.)

Beans medium large, long, flattened oval, white. Bush 11 to 15 inches tall.

Pkt. 15c; ½lb. 30c; lb. 55c; 5 lbs. \$2.50.

19 DWARF WHITE KIDNEY. (100 days.)

Large white, kidney-shaped, slightly flattened. Pods about 6 inches long, large and coarse.

Pkt. 20c; ½lb. 35c; lb. 65c; 5 lbs. \$3.00.

20 DWARF WHITE NAVY. (95 days.)

The well-known small oval white variety so largely used in all sections.

Pkt. 15c; ½lb. 30c; lb. 55c; 5 lbs. \$2.50.

21 DWARF WHITE MARROW. (100 days.)

Beans oval, about twice as large as Navy. Vines vigorous and productive.

Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

22 DARK RED KIDNEY. (95 days.)

5 to 6 inches long, flat, dark reddish in color. Plant is large and vigorous. Beans of delicious flavor.

Pkt. 20c; ½lb. 35c; lb. 65c; 5 lbs. \$3.00.

BEANS**Pole or Cornfield**

Culture. Pole Beans are more sensitive to cold and wet than dwarf varieties and should not be planted too early. Use poles from 6 to 8 feet long in rows 4 feet apart, placing the poles 3 feet apart in the row. In home gardens 3 poles are usually placed wigwag style and tied at the top. Around each pole plant 4 to 6 Beans from 1 to 2 inches deep. When ready to run, thin to 4 plants and see that they all climb the same way. If trained wrong, they will not climb. If to be planted in corn, this should be done after the corn is well started and has had two or three workings.

A packet plants 15 hills, a pound 100 hills, 30 pounds an acre.

INOCULATION FOR BEANS. Increase your yields of Beans by treating the seed before planting with NITRAGIN INOCULATOR. Easily done. We have it in convenient size for small gardens. 15 cts. each.

23 McCULLOUGH'S EARLY WHITE HALF RUNNER. (50 days.)

The name of this Bean is strictly in keeping with the nature of the plant. It is exceptionally prolific. Vines are light green, 16 to 20 inches in height and have short runners. Pods light green, about 5½ inches in length, containing 5 to 8 Beans. Thoroughly stringless when young. Also excellent as a dry shell Bean; flavor equal to or better than Navy Beans.

Pkt. 25c; ½lb. 40c; lb. 75c; 5 lbs. \$3.50.

All Varieties of Vegetables marked ● Are Excellent for Freezing

24 IMPROVED KENTUCKY WONDER.

● (67 days.) A well-known variety and one of the most popular of all Pole Beans. The vines are very vigorous, heavy and very prolific, hence not desirable for planting in corn. Pods are of irregular shape, bright green, very long, often reaching 9 to 10 inches. They are very tender, crisp and stringless when young.

Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

25 WHITE-SEEDED KENTUCKY WONDER.

(64 days.) Pods 6 inches long, almost round, stringless when young. Plant 5 feet tall. Beans good for dry shell as well as snap Beans.

Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

26 McCULLOUGH'S LOGAN GIANT.

(63 days.) If you want delicious, tender, fine-flavored snap Beans, be sure to plant some McCullough's Logan Giants. There is no Bean of its class that we have grown that is as tender and of as fine quality. Many of our customers consider it the best Pole Bean they have ever grown. The pods, produced in clusters and in great abundance, are light green, 6 to 7 inches long, broad, round and slightly curved.

Pkt. 25c; ½lb. 40c; lb. 75c; 5 lbs. \$3.50.

27 RED SPECKLED CUT SHORT or CORN HILL.

(74 days.) A very popular variety, especially for planting among corn. The vines are medium size, vigorous, with dark-colored leaves. Pods are 3 to 3½ inches long, straight, flat, fleshy and of good quality.

Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

28 LONDON HORTICULTURAL or SPECKLED CRANBERRY.

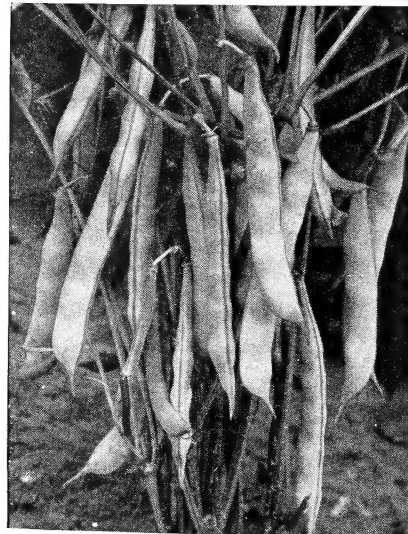
(72 days.) A very popular variety for general purposes, either as a late green shelled Bean or for snaps. The pods are of medium length, 4½ to 5 inches long, broad. Can be grown on corn or short poles.

Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

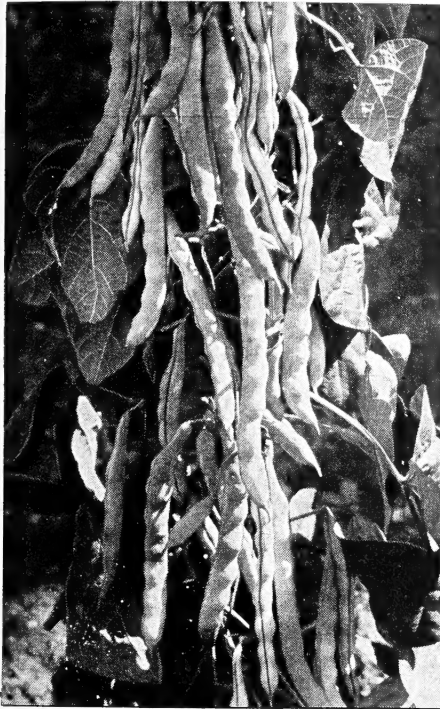
29 WHITE CREASEBACK.

(65 days.) The vines are medium size and vigorous. Pods are about 5 inches long, comparatively straight, attractive light green, very fleshy, with a crease down the center.

Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.



17 Improved Golden Wax Beans



24 Improved Kentucky Wonder Bean

BEANS, Pole or Cornfield, continued

30 MISSOURI WONDER. (66 days.) Pods 6 inches long, thick oval to flat. Plant grows 5½ feet tall; good producer. Used as snap Beans when young and for green shell purposes later.
Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

31 STRIPED CORNFIELD. (71 days.) A prolific green-podded variety. Pods straight, round, green at picking stage and becoming mottled with purple later.
Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

32 SCOTIA or STRIPED CREASEBACK. (72 days.) The pods are long, about 6 inches, very cylindrical or completely rounded, distinctly creasebacked, very fleshy and of excellent quality. Especially suitable for growing in corn for snaps.
Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

33 TENNESSEE WONDER or EGG HARBOR. (72 days.) Large green pods, curved, tinged with purple and wrinkled, depressed between the 8 or 9 seeds. One of the largest of all cultivated Beans.
Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

34 LAZY WIFE. (74 days.) A somewhat late-maturing variety, bearing medium green pods in large clusters. Pods are 5½ to 6½ inches long, broad, thick, fleshy and entirely stringless. An excellent sort for snap green, shelling, or dry Beans.
Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

35 McCASLAN. (66 days.) The pods, produced in great abundance, are a rich, dark green color, measuring about 7½ inches long, rather flat and slightly curved. Fine used as a snap sort, being entirely stringless when young. If pods are picked before maturing, vines bear till frost.
Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

POLE BEANS, Wax Pod

36 KENTUCKY WONDER WAX. (67 days.) Pods usually 7 inches long, solidly meaty and entirely stringless. Commences to bear when scarcely higher than bush variety and keeps on producing until killed by frost.
Pkt. 25c; ½lb. 50c; lb. 90c; 5 lbs. \$4.25.

All Varieties of Vegetables Marked ●
Are Excellent for Freezing

LIMA BEANS Dwarf or Bush

Culture. All Lima Beans are tender and the ground should be dry and the weather warm and settled before they are planted. They do best in good light soil; an application of sheep manure or other good fertilizer will be well repaid. Plant in drills 1½ to 2 feet apart, dropping the Beans 4 to 5 inches apart and covering about 2 inches deep. Cultivate often until they commence to flower, but only when the leaves are dry. For a succession make two plantings four weeks apart.

A packet will sow 15 feet of row, a pound about 100 feet, 60 pounds an acre.

37 BURPEE'S IMPROVED BUSH LIMA. (75 days.) Pods and Beans are both larger and thicker than Burpee's Bush Lima, and somewhat earlier. Plant is a vigorous grower with heavy foliage.
Pkt. 20c; ½lb. 35c; lb. 65c; 5 lbs. \$3.00.

38 FORDHOOK BUSH LIMA. ● (75 days.) A very vigorous and erect variety bearing its pods well above the ground in large clusters. Pods are medium green, about 5 inches long and contain 4 or 5 large, thick Beans of exceptionally fine quality. We consider this one of the best of the large-seeded kinds.
Pkt. 20c; ½lb. 35c; lb. 65c; 5 lbs. \$3.00.

39 FORDHOOK No. 242. ● (75 days.) Developed by the U. S. Department of Agriculture for its good productivity under adverse conditions. Pods slightly curved, with thinner walls than Fordhook, containing 3 to 4 light green Beans of the finest type.
Pkt. 20c; ½lb. 40c; lb. 70c; 5 lbs. \$3.25.

40 HENDERSON'S BUSH LIMA. ● (65 days.) An exceedingly productive variety of dwarf habit. Commences bearing very early and continues to grow and set pods until stopped by frost. The vines are without runners, somewhat dwarf, very productive. Beans small, white and of most excellent quality either for green shelling or as dry Beans.
Pkt. 15c; ½lb. 30c; lb. 50c; 5 lbs. \$2.25.

41 JACKSON WONDER or CALICO BUSH LIMA. (65 days.) It grows about 2 feet high and carries quite a load of pods that contain 3 or 4 Beans each. It begins bearing early and continues until killed by frost.
Pkt. 15c; ½lb. 30c; lb. 55c; 5 lbs. \$2.50.

All Varieties Marked ●
Suitable for Freezing

LIMA BEANS

Mammoth-Podded Pole

Culture. These are to be treated like other Pole Beans except that they should be planted one or two weeks later. Where soil is very stiff, it is best to plant the Beans with the eye downward, to help them come up more rapidly.

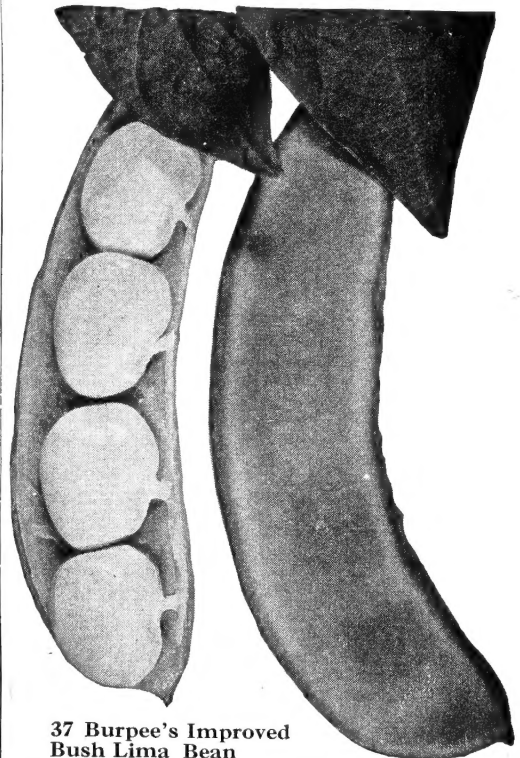
A packet will sow 10 poles, a pound 50 poles, 45 pounds an acre.

42 CHALLENGER (Fordhook Pole). (92 days.) A large-seeded Potato Lima, similar in pod and seed to Fordhook Bush Lima. Plant vigorous, good climber, very productive. Smooth, straight pods. Seed large, almost as wide as long.
Pkt. 20c; ½lb. 35c; lb. 65c; 5 lbs. \$3.00.

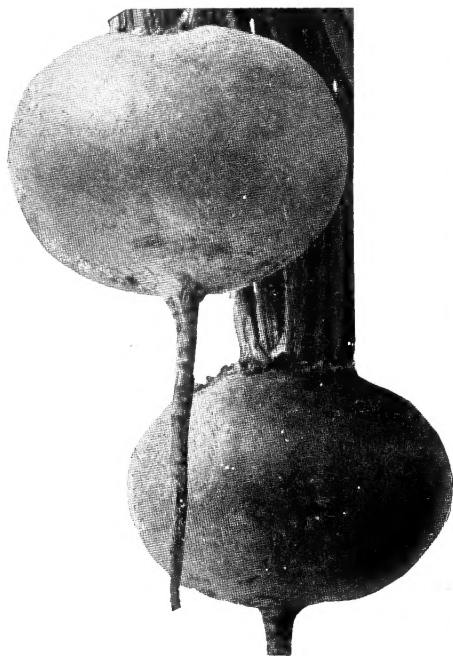
43 KING OF THE GARDEN. ● (88 days.) Well known for its heavy production and climbing ability. Vine grows 7 to 9 feet tall. Pods 5½ to 6½ inches long, with 3 or 4 Beans per pod. Easy to shell; excellent quality.
Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

44 SMALL LIMA or SIEVA. (77 days.) A small-seeded Pole Lima. Vine 9 to 10 feet tall. Pods 3 inches long, flat, with 3 or 4 Beans in each.
Pkt. 15c; ½lb. 30c; lb. 50c; 5 lbs. \$2.25.

45 FLORIDA BUTTER or SPECKLED BEAN (Calico Bean). (78 days.) A sure cropper. Like the Small or Sieva but speckled.
Pkt. 20c; ½lb. 30c; lb. 50c; 5 lbs. \$2.25.



37 Burpee's Improved Bush Lima Bean



53 Early Blood Turnip Beet

TABLE BEETS

Beets fresh from the garden are always more tender and delicious than those that are shipped. They can be sown in succession for different seasons and if too many are produced for table use, make excellent food for poultry and stock.

Culture. A deep, loamy or sandy soil is best suited to Beets. If wanted very early they can be sown in hotbeds and transplanted in the open ground when the weather has moderated, but the outer leaves should be trimmed off when transplanting is done. The earliest outdoor sowing is done in March or April, in rows 15 to 18 inches apart, thinning or transplanting the plants to 3 to 4 inches apart in the rows. For winter use, sow in June or July. Roots can be sorted in pits or cellars, covered with sand to keep them from wilting.

A packet will sow 25 feet of row, an ounce 100 feet, 8 to 15 pounds an acre.

46 EARLY WONDER. (52 days.) Flattened globe shape, uniform in size and color, dark blood-red. Fine quality and flavor. Popular for its earliness.
Pkt. 10c; oz. 20c; ¼lb. 60c.

47 CROSBY'S EGYPTIAN. (55 days.) An improved sort which is very popular with market gardeners on account of its quick growth, extreme earliness and general good qualities. The tops are small, roots flattened but slightly globe shaped and very smooth.
Pkt. 10c; oz. 20c; ¼lb. 60c.

48 DETROIT DARK RED. (58 days.) Shown in color, page 11. Produces medium-size, globe-shaped roots which are very smooth and of bright red color. Very desirable for bunching. Comparison with other varieties proved that **Detroit Dark Red** is the most uniform Beet in size and most attractive in color.
Pkt. 10c; oz. 20c; ¼lb. 60c.

51 EXTRA EARLY EGYPTIAN. (50 days.) The earliest sort and largely used for forcing. Has very small tops and produces flat, medium-sized roots of very dark red. Flesh is dark purplish red, firm, crisp and tender.
Pkt. 10c; oz. 20c; ¼lb. 60c.

53 EARLY BLOOD TURNIP. (60 days.) A selected stock of this old and very popular variety. It is of deep red color, zoned with lighter shade; roots round, slightly flattened and excellent for summer and autumn use.
Pkt. 10c; oz. 20c; ¼lb. 60c.

SWISS CHARD

55 LUCULLUS. (55 days.) This variety is grown for its leaves only, which are boiled like spinach. Sown in the spring, the leaves are soon ready to eat and will continue to produce all summer and fall.
Pkt. 10c; oz. 20c; ¼lb. 60c.

56 RHUBARB CHARD. (60 days.) A Swiss Chard that looks like rhubarb. The leaf stalks are bright but delicate, translucent crimson, heavily crumpled. You will enjoy its different, tasty, delicious flavor.
Pkt. 10c; oz. 25c; ¼lb. 75c.

STOCK BEETS or MANGELS

Culture. Used as a source of feed for cattle, sheep and poultry. Sow seed early in spring in rows 2 to 3 feet apart and cover with ½ inch of soil.

A packet will sow 25 feet, an ounce 100 feet.

57 MAMMOTH LONG RED MANGEL. (110 days.) Particularly suited to deep soils but succeeds on any medium or heavy soil. The roots are very large and uniform. Flesh is white, tinged with red.
Pkt. 10c; oz. 20c; ¼lb. 50c; ½lb. 90c.

58 GOLDEN TANKARD MANGEL. (95 days.) Produces very large oval-shaped roots, the bottom being larger than the top. It is light gray above the ground, deep orange-yellow below; flesh yellow zoned with white.
Pkt. 10c; oz. 20c; ¼lb. 50c; ½lb. 90c.

BRUSSELS SPROUTS

A vegetable of the cabbage family, largely used in the fall. It produces stalks about 2 feet high, which are covered with small heads resembling miniature cabbage. These are cooked and served like cabbage and are very tender and delicious.

Culture. Set plants 18 inches apart in rows that are 3 to 4 feet apart.

A packet produces 200 plants, an ounce 2000 plants, ¼ pound sufficient plants for an acre.

61 LONG ISLAND IMPROVED. (90 days.) A semi-dwarf variety and one of the best.
Pkt. 15c; ½oz. 50c; oz. 85c.

BROCCOLI

A packet produces 200 plants, an ounce 2000 plants, ¼ pound sufficient plants for an acre.

60 GREEN SPROUTING (Calabrese). (60 days.) The truest heading strain. Sow the seed in the open ground in May and transplant the plants when large enough. Central large head grows 5 to 6 inches in diameter. After cutting, numerous smaller heads appear. Keep green sprouts cut off before the flower buds open.
Pkt. 15c; ½oz. 30c; oz. 50c.

CAULIFLOWER

Culture. For early spring or summer crop sow the seed in January or February indoors or under glass. When the plants have four leaves, transplant to coldframes for development. Toward the end of March or early part of April, set in open field and cultivate like cabbage. For fall use sow at the same time as late cabbage and treat in the same manner.

A packet produces 150 plants, an ounce about 2000 plants.

94 EARLY SNOWBALL. (54 days.) Unquestionably the earliest maturing strain of short-leaf type of Cauliflower. It is well adapted for forcing or winter use for early crop and is one of the most popular of all sorts, both for market gardener and for home use. The plants are compact, with small leaves, adapted for close planting. Large, pure white flowers, of most excellent quality.
Pkt. 25c; ¼oz. \$1.00.

VEGETABLE PLANTS

Broccoli	Celery
Brussels Sprouts	Pepper
Cabbage	Tomato
Cauliflower	Sweet Potato

In the spring we carry a full line of the above in leading varieties. We do not send these plants by mail.



55 Lucullus Swiss Chard

CABBAGE Choice Selected Stocks

Culture. For earliest plants the seed is sown in hotbeds from January to March. To make the best plants, sow early and transplant to coldframes. Then at the end of March or the first of April transplant to the garden. Space early Cabbage plants 18 inches apart in rows $2\frac{1}{2}$ feet apart. Midseason and late plants should be 2 feet apart in rows $2\frac{1}{2}$ to 3 feet apart.

A packet produces 250 plants, an ounce about 2000 plants, $\frac{1}{4}$ pound enough plants for an acre.

The number of days indicated gives relative period of maturity from setting of plants. Allow 30 days to produce plants from seed.

Yellows-Resistant Cabbage Seed

Varieties listed below are the result of special breeding against yellows or wilt disease, an infection frequently attributed to hot or dry weather. Our stock seed is selected rigidly and continuously for type and resistance. We offer only first-generation seed from such stock.

62 WISCONSIN ALL SEASONS. (90 days.) Recommended for yellows-sick soil where the flatter type of domestic Cabbage is wanted for kraut. A uniform stock producing large crops.
Pkt. 15c; $\frac{1}{2}$ oz. 35c; oz. 65c.

63 WISCONSIN GOLDEN ACRE. (64 days.) True to type and earliness and in addition will produce good crops on yellows sick soil where regular Golden Acre cannot do well.
Pkt. 15c; $\frac{1}{2}$ oz. 40c; oz. 75c.

64 MARION MARKET. (75 days.) Round head, short stem, will permit close planting. Earliest of all yellows-resistant varieties selected from Copenhagen Market.
Pkt. 15c; $\frac{1}{2}$ oz. 40c; oz. 70c.



63 Wisconsin Golden Acre Cabbage

65 WISCONSIN HOLLANDER. (100 days.) This is a strain of Holland or Danish Ballhead. A heavy yielder. Round head, deep green, with a purple or bluish tint on the edges.
Pkt. 15c; $\frac{1}{2}$ oz. 40c; oz. 75c.

Early Varieties

66 GOLDEN ACRE. (64 days.) This is an early, round-headed Cabbage that closely resembles Copenhagen Market in type. As its name implies, it is a money-maker. Earlier than Copenhagen Market but smaller and can be planted closer. Because of its earliness and fine quality, it commands a higher price than any round-headed Cabbage.
Pkt. 10c; $\frac{1}{2}$ oz. 30c; oz. 50c.

67 EARLY JERSEY WAKEFIELD. (66 days.) One of the earliest and by far the surest heading of first early Cabbages. It is exceedingly hardy. Plants are compact, with erect conical heads and few outer leaves. Stems short; heads of medium size, very solid and of excellent quality.
Pkt. 10c; $\frac{1}{2}$ oz. 25c; oz. 40c.

69 COPENHAGEN MARKET. (68 days.) The heads are uniformly round and firm, and it has a very short stem and few outer leaves. A most excellent sort for home gardens and market gardeners.
Pkt. 10c; $\frac{1}{2}$ oz. 30c; oz. 50c.

Medium Early Varieties

73 EARLY DWARF FLAT DUTCH. (84 days.) A variety which has long been popular for home use and markets. The heads are borne on short stems and are very large, solid, and nearly flat on top.
Pkt. 10c; $\frac{1}{2}$ oz. 25c; oz. 40c.

Main-Crop Varieties

77 PREMIUM LATE FLAT DUTCH. (105 days.) A very superior strain of this well-known, popular Cabbage, exceptionally reliable for main-crop planting. It is short-stemmed, has rather large, early leaves, and produces uniformly large, flat, deep, solid heads of splendid quality. It is an excellent keeper.
Pkt. 10c; $\frac{1}{2}$ oz. 25c; oz. 45c.

79 DANISH BALLHEAD. (95 days.) Produces very large, solid heads, which are globular in shape, with few but rather large, thick, bluish green leaves. Heads are borne on short stems, are of medium size, round, very solid. One of the very best keepers and much desired for kraut.
Pkt. 10c; $\frac{1}{2}$ oz. 30c; oz. 50c.

81 PERFECTION DRUMHEAD SAVOY. (90 days.) Used almost entirely for late planting and attains its greatest perfection in flavor after frost, when it becomes tender and delicious. The heads are of medium size, borne on short stems, and not as large as the ordinary late Cabbage, hence will stand closer planting.
Pkt. 10c; $\frac{1}{2}$ oz. 30c; oz. 50c.

RED CABBAGE

82 MAMMOTH RED ROCK. (90 days.) A variety used mainly for pickles and sauerkraut. It is highly esteemed.
Pkt. 15c; $\frac{1}{2}$ oz. 35c; oz. 60c.



83 Chihli Chinese Cabbage

CHINESE CABBAGE

Also called "Celery Cabbage"

This vegetable of the Cabbage family has become extremely popular. The large mid-ribs of the leaves are perfectly white and very crisp and tender. It is excellent when used as a salad.

Culture. The seed should be sown not earlier than July 1 in rows $2\frac{1}{2}$ feet apart, and the plants thinned 18 to 20 inches apart in the rows. If sown early it soon runs to seed and is useless.

An ounce will sow 40 to 50 feet of row.

83 CHIHILI. (70 days.) This is the earliest variety of Chinese Cabbage and heads more evenly than any other kind. The heads are pointed, very firm, and when matured are often 18 inches long, blanched pure white inside. Very fine quality.
Pkt. 10c; $\frac{1}{2}$ oz. 30c; oz. 50c.

Grow Your Own Mushrooms

Mushroom Trays, Complete with Soil and Spawn . . . Ready to Use . . . Simply Add Water.

These carefully prepared "Mushroom beds," when placed in any basement fruit or storage cellar at a temperature of 52 to 60 degrees, will produce delicious Mushrooms in three to four weeks. Trays produce for two to four months.

Tray Dimensions 18 in. x 14 in. x 5 in.

\$2.00 each at the store.

\$2.55 each postpaid in Cincinnati and first and second zone.

\$2.75 each postpaid 3rd zone.

Our special leaflet, "Mushroom Culture," will be sent free if you ask for it. Follow the directions and you should grow splendid Mushrooms.

BRICK SPAWN. One brick will plant about 10 square feet.

50c per brick; 5 bricks \$2.25.

BEST TABLE CARROTS



87 Nantes Improved Coreless Carrot

Carrots have become a very popular vegetable, since nutrition specialists have pointed out their value in the human diet. They add flavor to soups and meats, besides being healthful, delicious and to an extent ornamental, and should be more largely used. In addition to their table uses, they are a nutritious food for all kinds of stock and poultry.

Culture. Carrots do best in rich, light loamy soil. Where the soil is shallow or stiff, select the shorter varieties rather than the longest-rooted sorts. For early crop sow in March and for main crop in April or May, in rows 18 inches apart, cultivating and weeding as soon as the plants are up. Continue in cultivation until maturity. Cover the seed $\frac{1}{2}$ inch deep and see that the soil is pressed firmly; thin to 4 to 6 inches apart.

A packet sows 30 feet of row, an ounce 200 feet, 3 pounds an acre.

MATURITY DATES following variety names are average days from sowing time until vegetable is ready for use.

87 NANTES IMPROVED CORELESS. ● (68 days.) Because of its fine quality, this variety is one of the best for the home garden as well as for market. Roots 6 to 7 inches long, with a smooth waxy appearance that makes them very attractive. Sweet and tender.

Pkt. 10c; $\frac{1}{2}$ oz. 25c; oz. 40c; $\frac{1}{4}$ lb. \$1.25.

88 OXHEART. (74 days.) A short, thick variety, especially adapted to stiff or hard soils. Roots $4\frac{1}{2}$ to 5 inches long, very thick, ending abruptly in a small tapering root. The flesh is bright orange, of the finest quality. An excellent sort for market or home use, stock feeding and poultry.

Pkt. 10c; $\frac{1}{2}$ oz. 20c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

89 IMPERATOR. (77 days.) Fine variety for home use. Sloping shoulders and semi-blunt end, 7 to 8 inches long; rich orange color with indistinct core.

Pkt. 10c; $\frac{1}{2}$ oz. 20c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

90 DANVERS HALF LONG. (75 days.) Shown in color, page 11. A deep orange, tender variety, producing roots of medium length, 6 to 8 inches long, tapering uniformly to a blunt point. Very productive and well adapted to nearly all classes of soil for main crop.

Pkt. 10c; $\frac{1}{2}$ oz. 20c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

91 CHANTENAY. ● (70 days.) A medium early variety, orange-red, crisp and tender. Roots smooth, thick, $5\frac{1}{2}$ to 6 inches long, uniformly stump rooted but tapering slightly. One of the best in quality and productiveness for either home garden or market.

Pkt. 10c; $\frac{1}{2}$ oz. 20c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

92 IMPROVED LONG ORANGE. (85 days.) A well-known popular sort, well adapted for loamy or deep soil. Roots deep orange, usually about 12 inches long, 3 inches in diameter at the crown, tapering to a point. Excellent for table use, markets and stock feeding.

Pkt. 10c; $\frac{1}{2}$ oz. 20c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

CELERY

Culture. For the earliest crop the seed should be sown in hotbeds from the middle of February to the end of March. For main crop sow in open ground in March or April, according to the weather, in rows 15 inches apart. Seed sown in beds should be transplanted. When the plants are set in the open field, trim the tops off. Set plants 6 to 8 inches apart in rows about 5 feet apart. Stalks may be blanched to make them more crisp and tender. For blanching, boards, soil or Celery paper is recommended.

A packet will produce about 400 plants, an ounce 6000 plants.

95 WHITE PLUME. (112 days.) An extra early and very handsome sort popular with market gardeners, especially for early crop. Leaves are light, bright green at the base, shading nearly white at the tip. As plants mature, the inner stem and leaves turn white and consequently require less earthing and blanching before they are in condition to use for market.

Pkt. 15c; $\frac{1}{2}$ oz. 65c; oz. \$1.25.

97 GOLDEN SELF BLANCHING. (118 days.) This is not only a very early variety but one of the best for home use or market. Plants are medium size, compact and stocky, with yellowish green foliage. As they mature, the inner stem turns a beautiful golden yellow color and blanching is easily accomplished. Being of handsome color, very crisp, tender, free from stringiness and of fine flavor, it is the leading sort grown.

Pkt. 15c; $\frac{1}{2}$ oz. 65c; oz. \$1.25.

98 GIANT PASCAL. (140 days.) A green-leaf variety of the Golden Self Blanching type, and one of the best for fall and early winter use. It blanches a beautiful yellowish white, is very solid and crisp and has a fine nutty flavor. Stalks of medium height, thick, solid, flattening toward the base. One of the best for main or late planting.

Pkt. 15c; $\frac{1}{2}$ oz. 55c; oz. \$1.00.

99 CELERIAC or TURNIP-ROOTED CELERY. (110 days.) Used for its roots only, which have a fine, sweet, nutty Celery taste. It is used either boiled or raw, has a delightful flavor and can be used in soups and salads or as a table vegetable. Culture about the same as for Celery.

Pkt. 15c; $\frac{1}{2}$ oz. 65c; oz. \$1.25.

COLLARDS

Culture. Sow seeds outdoors in spring when soil is warm. Transplant 2 feet apart in the row.

$\frac{1}{2}$ ounce plants 100 feet of row, 3 to 4 pounds an acre.

101 GEORGIA or SOUTHERN. (75 days.) Plants erect, 2 to 3 feet tall. Large, juicy leaves are usually stripped from the plants as they grow, and are boiled. Will stand light freezing.

Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 60c.

● Suitable for freezing

For best results treat your vegetable seeds with seed disinfectants to protect them from fungus, molds and damping off. See page 57.



98 Giant Pascal Celery

McCULLOUGH'S

fine VEGETABLE SEEDS

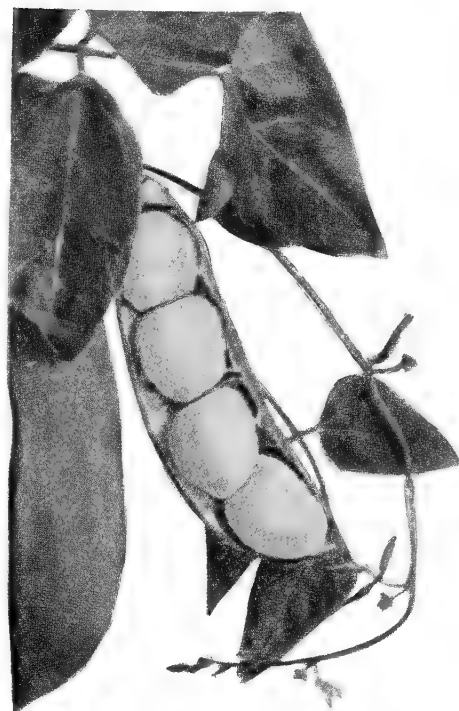
You don't know how good vegetables can be until you grow your own! Beans that really snap, Peas of honey sweetness, Corn dripping with delicious flavor, are never so appetizing as when they reach the table only a few minutes after being picked. There will be no need to coax the youngsters to eat when you can give them such health-promoting, vitamin-packed vegetables as these.



2 BEAN, TOPCROP
1950 Gold Medal AAS
Pkt. 25c; 1/2lb. 45c.
lb. 85c
See page 5



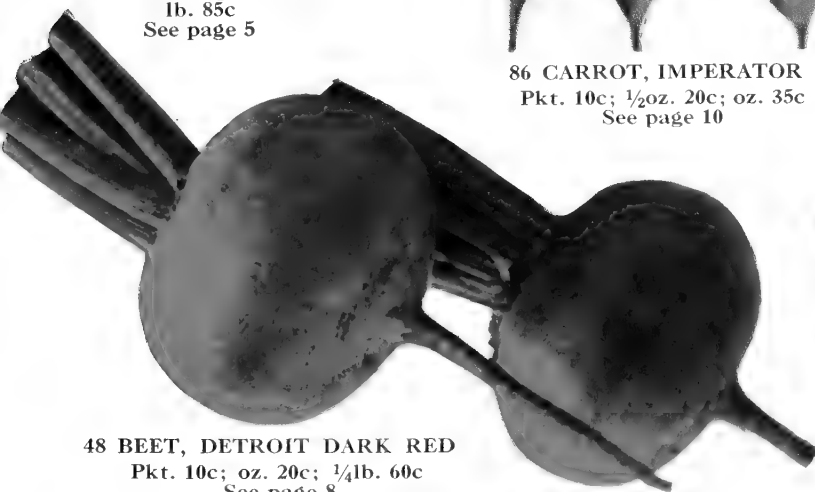
86 CARROT, IMPERATOR
Pkt. 10c; 1/2oz. 20c; oz. 35c
See page 10



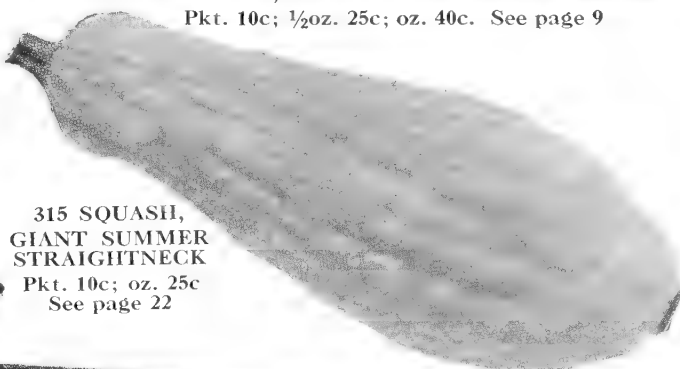
36 LIMA BEAN, FORDHOOK BUSH
Pkt. 20c; 1/2lb. 40c; lb. 70c. See page 7



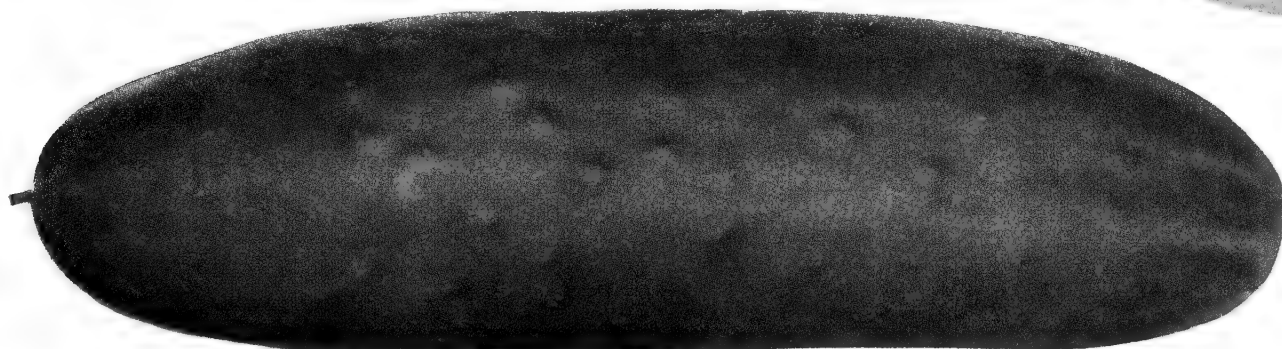
73 CABBAGE, EARLY DWARF FLAT DUTCH
Pkt. 10c; 1/2oz. 25c; oz. 40c. See page 9



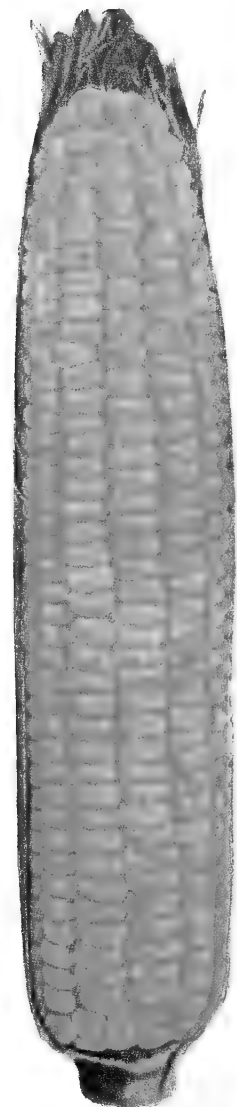
48 BEET, DETROIT DARK RED
Pkt. 10c; oz. 20c; 1/4lb. 60c
See page 8



315 SQUASH, GIANT SUMMER STRAIGHTNECK
Pkt. 10c; oz. 25c
See page 22

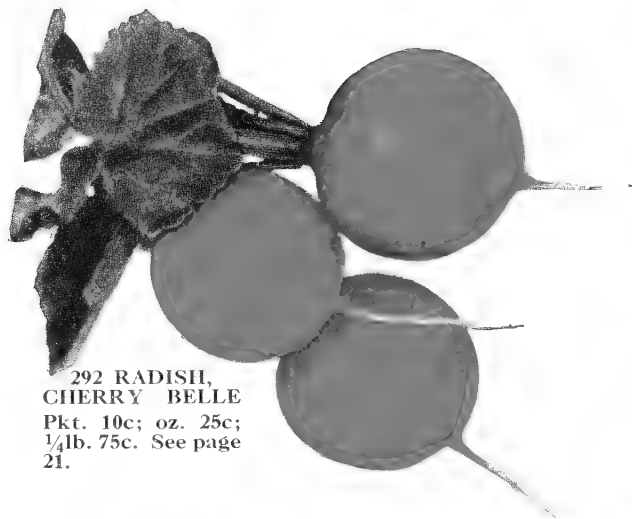


141 CUCUMBER, McCULLOUGH'S HYBRID. Pkt. 25c; 3 pkts. 70c. See page 14



**107 CORN,
GOLDEN CROSS
BANTAM**

Pkt. 25c; ½lb. 45c;
lb. 80c; 5 lbs. \$3.75
See page 13



**292 RADISH,
CHERRY BELLE**
Pkt. 10c; oz. 25c;
¼lb. 75c. See page
21.



124 CORN, AUNT MARY
Pkt. 20c; ½lb. 35c; lb. 60c
See page 13



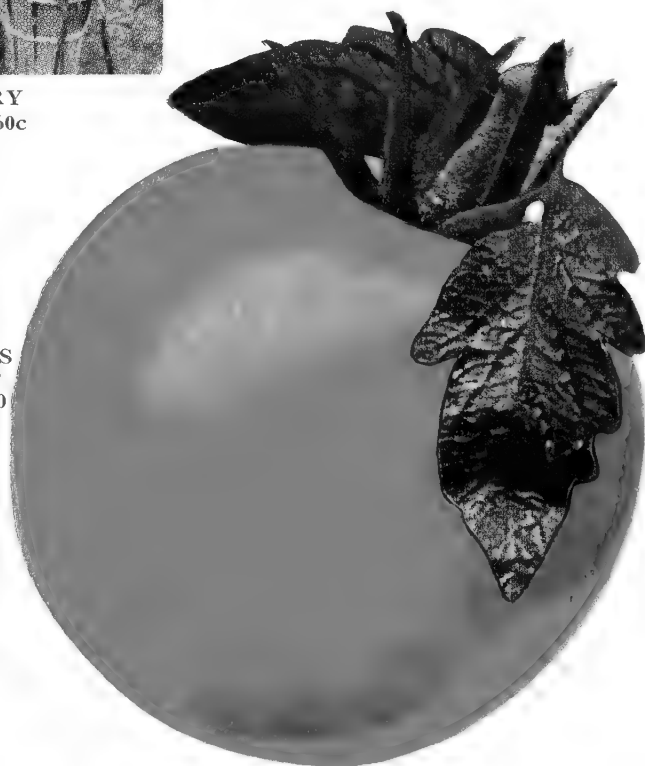
247 PEAS, EARLY BIRD
Pkt. 15c; ½lb. 25c; lb. 45c
See page 19

If you are an old hand at growing your own vegetables, you will get a new "kick" out of trying some new varieties. How about the Cherry Belle Radish? You will be delighted with its crackling freshness and its short period to maturity. Aunt Mary Corn may be new to you, too; it is worth a trial. So is our own McCullough Tomato. Every year brings novelties that bear testing.



**264 PEPPER,
CALIFORNIA
WONDER**
Pkt. 15c; ½oz. 65c
See page 20

**334 McCULLOUGH'S
HYBRID TOMATO**
Pkt. 35c; 3 pkts. \$1.00
See page 23



SWEET CORN

Our Sweet Corn is grown in Idaho and northern Ohio. It is from select seed stock of excellent quality.

Culture. Sweet Corn should not be planted until the weather is settled and the ground warm. Plant the seeds an inch deep and 3 inches apart; thin to 10 inches apart. Or plant in hills spaced 2 feet apart each way. Cultivate frequently and keep the ground free of weeds. For succession, plant every two weeks from May to the end of July.

A packet plants 100 feet of row, a pound about 300 hills, 12 to 14 pounds an acre.

Hybrid Types

100 IOCHIEF. ● (87 days.) 1951 All-America Gold Medal Winner. Delicious flavor. Ear 9 to 10 inches long, with 16 to 18 rows deep tender yellow grains. Somewhat resistant to heat and drought. Lasts well. Highly recommended.
Pkt. 25c; ½lb. 50c; lb. 95c; 5 lbs. \$4.50.

102 OHIOGOLD 1. ● (90 days.) Developed by Agronomy Dept., Ohio State University. Ohiogold 1 produces a rugged stalk. The plants are tall and about 6 days later in maturity than those of Golden Cross Bantam. Long ears with 12 to 14 rows of medium yellow kernels. Quality excellent.
Pkt. 25c; ½lb. 50c; lb. 95c; 5 lbs. \$4.50.

103 IOANA. (85 days.) Here is a grand, light yellow Sweet Corn with a quality flavor. The plants are about 7 feet tall, sucker free, and quite vigorous. Ears are uniform, with 12 rows of sweet, toothsome kernels to the ear.
Pkt. 25c; ½lb. 50c; lb. 90c; 5 lbs. \$4.25.

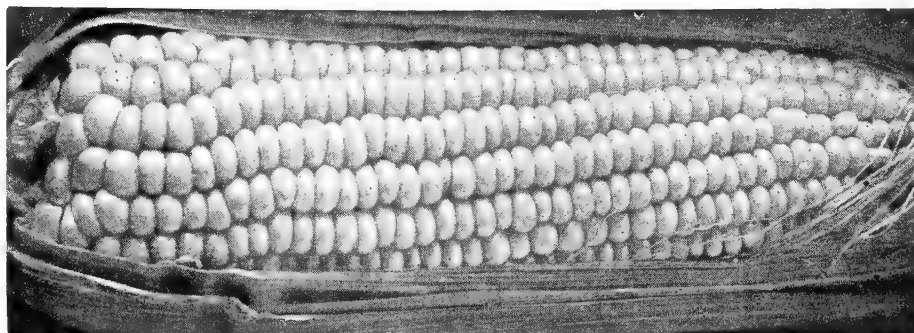
104 EVERGREEN HYBRID. ● (90 days.) Ears 7½ to 8½ inches long, with 14 to 18 rows of deep, narrow, white kernels, which are tender and very sweet. Recommended for home or market garden as well as for canning. 8 to 10 feet tall.
Pkt. 25c; ½lb. 50c; lb. 95c; 5 lbs. \$4.50.

105 SPANCROSS (C13.4). (73 days.) Honorable Mention, All-America Selections. One of the earliest. Ears about 6½ inches long, with 10 to 12 rows of cream-yellow kernels. Stalks about 5 feet tall. Highly resistant to bacterial wilt.
Pkt. 25c; ½lb. 45c; lb. 85c; 5 lbs. \$4.00.

106 MARCROSS (C13.6). ● (76 days.) Developed by the Connecticut Experiment Station. Stalks short but sturdy. Highly resistant to bacterial wilt. Ears very attractive, about 7 inches in length with 10 to 14 rows of light cream-yellow kernels of fine quality.
Pkt. 25c; ½lb. 45c; lb. 85c; 5 lbs. \$4.00.

107 GOLDEN CROSS BANTAM. ● (85 days.) Shown in color, page 12. At present, this is the leading Hybrid Sweet Corn. Highly resistant to bacterial wilt, uniform in growth, maturity and heavy yield. Stalks about 7 feet high; ears about 8 inches in length with 10 to 14 rows of rich yellow kernels.
Pkt. 25c; ½lb. 45c; lb. 80c; 5 lbs. \$3.75.

All varieties of vegetables marked (●) are excellent for freezing.



100 Iochief Sweet Corn

Open-Pollinated Yellow

109 GOLDEN BANTAM. ● (70 days.) **Selected Northern Grown.** The most popular yellow Sweet Corn; also one of the earliest and hardiest. Rarely grows over 3½ feet in height, and usually bears two ears, 5 to 6 inches long, on each stalk.
Pkt. 15c; ½lb. 30c; lb. 50c; 5 lbs. \$2.25.

110 WONDER BANTAM. (72 days.) Desirable for home, market and shippers who want a vigorous variety with heavier foliage and longer ears than Golden Bantam. Ears 7½ to 8½ inches long, with 8 rows of tender, sweet kernels of good quality.
Pkt. 15c; ½lb. 30c; lb. 50c; 5 lbs. \$2.25.

111 GOLDEN SUNSHINE. (68 days.) The earliest of the Golden Bantam type. More dwarf in habit than Bantam, with ears 6½ inches long, containing 12 rows of broad, yellow, sweet grains.
Pkt. 15c; ½lb. 30c; lb. 50c; 5 lbs. \$2.25.

112 GOLDEN GIANT. (87 days.) Excels all other early varieties in size, yield and quality. Equals late varieties in size and excels them in quality and earliness.
Pkt. 15c; ½lb. 30c; lb. 50c; 5 lbs. \$2.25.

113 BANTAM or GOLDEN EVERGREEN. (87 days.) A most excellent sort of fine quality. The ears average 8 inches long and are 12-rowed; the grain is rather broad and deep.
Pkt. 15c; ½lb. 30c; lb. 50c; 5 lbs. \$2.25.

Open-Pollinated White

115 WHIPPLE'S EARLY WHITE. (85 days.) Of the narrow-grained Evergreen type, but ready for use much earlier. Ears 8 to 9 inches long; 16 to 18 rows of pearly white grains. This variety is by far the earliest of the narrow-grained Evergreen types and has a larger sugar content.
Pkt. 15c; ½lb. 30c; lb. 50c; 5 lbs. \$2.25.

116 EARLY EVERGREEN. (85 days.) This variety resembles Stowell's Evergreen but is ready for use earlier and remains in good condition equally as long. Ears grow to a good size, usually about 7 inches long, and contain from 16 to 18 rows of deep sweet grains.
Pkt. 15c; ½lb. 30c; lb. 50c; 5 lbs. \$2.25.

117 COUNTRY GENTLEMAN. (90 days.) Probably the most popular of all sorts for home gardens on account of its sweetness, tenderness and delicious flavor. Ears 7 to 8 inches long, round, medium size. Grains zig-zag or staggered.
Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

118 HOWLING MOB. (80 days.) A popular, productive, large-eared variety; valuable for home and truck gardeners. Ears measure 7 to 9 inches in length, with 12 to 16 rows of white grains.
Pkt. 15c; ½lb. 30c; lb. 50c; 5 lbs. \$2.25.

119 STOWELL'S EVERGREEN. (90 days.) One of the standard main-crop sorts, which has long been popular with commercial growers and canners and for home gardens. It is hardy, thrifty, productive, very tender and sugary. Ears 8 to 9 inches long, having 16 to 18 rows of very deep grains.
Pkt. 15c; ½lb. 30c; lb. 50c; 5 lbs. \$2.25.

122 ZIG-ZAG EVERGREEN. (90 days.) A late variety of Zig-Zag Evergreen Corn. The ears are generally twice the diameter of any other sort and of a fine-sweet flavor.
Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

123 BLACK MEXICAN. (83 days.) An interesting variety with sweet jet-black ears.
Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

124 AUNT MARY CORN. (90 days.) By actual performance in the garden this white, straight-rowed Sweet Corn has proved to be one of the finest to date. The sweetness and flavor are superb.
Pkt. 20c; ½lb. 35c; lb. 60c; 5 lbs. \$2.75.

Early Dent Garden Corn

These are not Sugar Corns but are valuable for their hardness. They can be planted earlier and will mature more quickly than sugar Corns and are therefore usually very profitable for market gardeners.

125 EXTRA EARLY ADAMS. (70 days.) Stalks about 4 feet high with few leaves and without suckers. Ears short, very full, with 12 to 14 rows of white, smooth kernels. An extremely hardy sort.
Pkt. 10c; ½lb. 20c; lb. 35c; 5 lbs. \$1.50.

126 EARLY ADAMS. (73 days.) About the same characteristics as Extra Early Adams but a little larger and later. Stalks about 6 feet high; ears have 12 to 14 rows. A good variety for second or very late planting.
Pkt. 10c; ½lb. 20c; lb. 35c; 5 lbs. \$1.50.

127 TRUCKER'S FAVORITE. (78 days.) A late variety of the Adams type; ears 9 to 10 inches long, 14 to 16-rowed. Has dual value in producing a good crop of feed Corn if roasting-ear market is unfavorable.
Pkt. 10c; ½lb. 20c; lb. 30c; 5 lbs. \$1.25.

POPCORN

Plant Popcorn and pop it for your own pleasure.

Culture. Place 5 or 6 seeds in a group and space the groups 3 to 4 feet apart. Cover with 1 to 2 inches of soil. Thin later to 3 or 4 stalks. Or plant in rows 3 to 4 feet apart, with the seeds 4 to 6 inches apart.

A packet sows 75 feet of row.

128 LARGE YELLOW HYBRID. (Certified.) (105 days.) Hybrids produce larger popping expansion and increased volume—a very desirable quality. Pkt. 35c; ½lb. 65c; lb. \$1.25; 5 lbs. \$6.00.

129 WHITE RICE. (90 days.) Kernels white, crisp and tender. Pkt. 15c; ½lb. 25c; lb. 45c; 5 lbs. \$2.00.

130 JAPANESE HULLESS. (85 days.) Tender, sweet, pure white when popped. Pkt. 15c; ½lb. 25c; lb. 45c; 5 lbs. \$2.00.

131 SOUTH AMERICAN LARGE YELLOW. (110 days.) Large kernels, dark yellow and smooth. When popped, it expands to large size. Very popular. Pkt. 15c; ½lb. 25c; lb. 45c; 5 lbs. \$2.00.

CORN SALAD

(Lamb's Lettuce)

Quick growing, for early spring, late fall or winter use. Very hardy. Leaves are cooked like spinach or used in salads.

132 BROAD-LEAVED. (45 days.) Round-leaved. Pkt. 15c; ½oz. 35c; oz. 60c.

DILL

A packet sows 12 feet of row, an ounce 50 feet.

148. (70 days.) Dill is an annual herb used for seasoning pickles, sauces, soups, etc. It is easily grown. Pkt. 10c; oz. 20c; ¼lb. 50c.



149 Black Beauty Eggplant

CUCUMBERS For Pickling and Slicing

Culture. Hills are usually made about 4 feet apart, using well-rotted cow or sheep manure well mixed with the soil. For earliest crop outdoors, plant 8 to 10 seeds in hills or drills 4 feet apart. After danger of frost and destruction by insects, thin the plants to about four to the hill. For late crop plant from the end of May until July. Cultivate occasionally, and when the fruit is ready for use, pick whether wanted or not, to extend the life and productiveness of the vines.

A packet plants 15 hills, an ounce 50 hills, 3 pounds an acre.

133 A. & C. (67 days.) This beautiful Cucumber is a large yielder of fine fruits. About 10 inches in length, well rounded at ends and very dark green.

Pkt. 10c; oz. 35c; ¼lb. \$1.00.

134 STRAIGHT EIGHT. (65 days.) A long, slender, very straight fruit with a slight taper at each end. At the edible stage, the length averages about 8 inches and the color is a rich dark green. Excellent for slicing.

Pkt. 10c; oz. 35c; ¼lb. \$1.00.

135 LONGFELLOW. (72 days.) A White Spine type. Vines are vigorous and productive. Fruit 12 to 14 inches long and 2½ inches in diameter. Can be grown in the garden or greenhouse; stands shipping well.

Pkt. 10c; oz. 35c; ¼lb. \$1.10.

136 EARLY WHITE SPINE. (60 days.) One of the best sorts for table use, for market gardeners and truckers. The vines are vigorous, producing fruit early and abundantly. Fruits are uniformly straight, about 8 inches long.

Pkt. 10c; oz. 30c; ¼lb. 90c.

137 IMPROVED LONG GREEN. (68 days.) One of the most popular sorts for home gardens and in country districts for home markets. Fruits are very long, often 12 inches, slender and uniformly dark green color. Rather late maturing, and very vigorous. The matured fruits are excellent and tender for table use and both large and small can be used for pickling.

Pkt. 10c; oz. 35c; ¼lb. \$1.00.

138 DAVIS PERFECT. (67 days.) Dark, rich green color, slightly tipped with white at the end; has very few seeds and is excellent for slicing. Fruits are often 12 inches long, very slim and showy.

Pkt. 10c; oz. 30c; ¼lb. 90c.

139 EARLY FRAME. (56 days.) A well-known, short, green variety, producing straight, moderate-sized fruit. Fine for very early planting or pickling.

Pkt. 10c; oz. 30c; ¼lb. 90c.

140 EARLY FORTUNE. (60 days.) The finest type of White Spine yet introduced. Early and very productive. Fruits grow 9 inches long, slightly tapering; flesh white, firm and crisp, with very few seeds. Color dark green. Quality is excellent either when sliced or for making pickles. Pkt. 10c; oz. 30c; ¼lb. 90c.

141 McCULLOUGH'S HYBRID CUCUMBER. (58 days.) Shown in color, page 11. First-generation true hybrid of the White Spine slicing type. Resistant to mosaics and downy mildew. Vines are large and extremely long-lived and vigorous, bearing heavily from early until quite late. Fruit is long and straight, averaging 8½ inches. Darker green than most slicing varieties. Seed cavity medium; flesh crisp, tender and of high quality. Hybrid vigor and disease resistance combine to make this an outstanding new Cucumber. Pkt. 25c; 3 pkts. 70c.

142 BOSTON PICKLING. (58 days.) Very productive. Fruits short, bright green, used for pickling. Pkt. 10c; oz. 30c; ¼lb. 85c.

143 NATIONAL PICKLING. (56 days.) Due to its remarkable solidity and heavy yields, this is today one of the favorite pickling sorts. It is just as firm after pickling as before. Early, dark rich green, straight and symmetrical. Pkt. 10c; oz. 30c; ¼lb. 85c.

144 JERSEY PICKLING. A variety shorter than Long Green. A very popular main-crop pickling sort for market and commercial uses. Pkt. 10c; oz. 30c; ¼lb. 85c.

145 EARLY GREEN CLUSTER. (52 days.) Short and prickly, borne in clusters. Prolific; fine for bottling. Pkt. 10c; oz. 30c; ¼lb. 90c.

146 WHITE WONDER. (58 days.) Fruit, produced in clusters, is symmetrical, short, blocky, and rounded at both ends. Ivory-white from time of forming until maturity; moderately productive. Pkt. 10c; oz. 35c; ¼lb. \$1.00.

147 SURECROP. (58 days.) All-America Bronze Medal Winner, 1951. Fruits slender and blunt ended, 8 to 9 inches long, 2½ inches in diameter, dark green in color. White-spine type. Resistant to mosaic and downy mildew. Vigorous grower and high yielder. Pkt. 25c; 3 pkts. 70c.

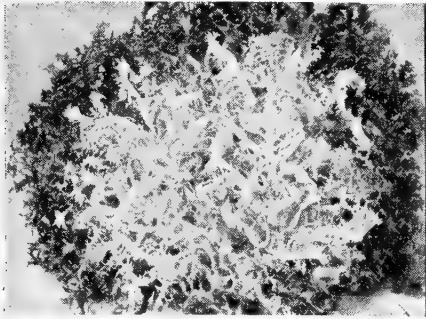
EGGPLANT

Culture. Sow in February or March in warm hotbeds. When plants have two rough leaves, transplant to 3 or 4 inches apart or into small pots. After all danger of frost is past, about the middle or end of May, transplant to the garden, setting plants about 3 feet apart each way. Shade young plants from hot sun.

A packet produces 100 plants, an ounce 1000 plants, ¼ pound enough for an acre.

149 BLACK BEAUTY. (80 days.) Fruit slightly longer and darker than any other variety, rich dark purple, large and symmetrical. It is very desirable for market, for it holds its color a long time. Entirely free from spines; splendid for early crop or very late planting. Pkt. 25c; ½oz. 85c; oz. \$1.50.

Plants ready in May. We do not send these plants by mail.



150 Green Curled Endive

ENDIVE

One of the best salads for fall and winter, and sometimes used for greens, flavoring soups and stews. It may be grown at any season but is more generally planted for fall.

Culture. For early use, sow about April 15; for later use, sow in June or July, in drills 18 inches apart, and when large enough thin out to about 1 foot apart. When nearly grown, tie the outer leaves together over the center in order to blanch the heart. By covering fresh plants every few days a succession may be had.

A packet sows 100 feet of row, an ounce 400 feet.

150 GREEN CURLED. (93 days.) One of the hardest and best varieties for general use. It has deep green leaves, beautifully cut and curled, is easily blanched, very crisp, tender and of fine flavor.
Pkt. 10c; oz. 25c; 1/4lb. 75c.

151 BROAD-LEAF BATAVIAN (Escarole). (90 days.) A variety having broad, bright green leaves with thick white mid-ribs. It is much larger than other sorts and has a flavor all its own. The inner leaves form a very solid, clustering head and are blanched a beautiful deep, creamy white. Crisp, tender and of fine flavor.
Pkt. 10c; oz. 25c; 1/4lb. 75c.

152 MOSS CURLED. (93 days.) A compact-growing variety forming large dense clusters of finely divided, medium green leaves. When properly blanched it is rich creamy white and tender.
Pkt. 10c; oz. 25c; 1/4lb. 75c.

153 WHITE CURLED. (98 days.) Plants 12 to 13 inches in diameter; leaves finely curled, with broad ribs slightly rose tinged. Creamy white at the heart.
Pkt. 10c; oz. 25c; 1/4lb. 75c.

LEEK

A kind of Onion that does not form a bulb, but grows in a long stem.

Culture. Sow in April or May, in rows 18 inches apart. Cover seed 1/2 inch deep and thin plants to 4 to 6 inches apart in the row. The neck is blanched and ready for fall use.

An ounce will sow 100 feet of row.

170 GIANT MUSSELBURG. (150 days.) A long, medium thick, white-stemmed, hardy variety with broad, medium green leaves.
Pkt. 15c; 1/2oz. 40c; oz. 75c.

LETTUCE

The smallest of home gardens can easily grow plenty of Lettuce. By making successive sowings and using the Lettuce as it is thinned, a supply can be had throughout the season.

Culture. Plant the seed in rich ground as early in the spring as possible. Cover not more than 1/2 inch deep. Provide plenty of moisture during the growing season. Thin the plants to 10 inches apart.

A packet sows 50 feet of row, an ounce about 250 feet, 3 pounds an acre.

Curled or Loose-Leaved Varieties

171 SLOBOLT. (43 days.) Similar in type and general appearance to Grand Rapids. Its tendency to remain in condition for a long period makes it very desirable for the home or market gardener.
Pkt. 20c; oz. 50c; 1/4lb. \$1.50.

172 BLACK-SEEDED SIMPSON. (45 days.) The best sort for nearby markets and for home gardens on account of its superior quality. It forms a large, loose head of very bright green and is exceedingly tender. Largely used for forcing under glass and is a superior sort for earlier crops.
Pkt. 10c; oz. 30c; 1/4lb. 90c.

173 GRAND RAPIDS. (43 days.) Special forcing strain. The most popular variety for greenhouse forcing, especially for shipping. It is of quick growth, hardy and not liable to rot; remains in good condition several days after being fit to cut. Plants are upright and uniform; leaves finely crumpled at the edges.
Pkt. 10c; oz. 30c; 1/4lb. 90c.

174 EARLY CURLED SIMPSON (White-Seeded). (45 days.) Makes a large, loose curled head similar to Black-Seeded Simpson. Particularly adapted for sowing thickly and cutting when the plants are young. Leaves light green, slightly frilled, much blistered, crisp, sweet and tender.
Pkt. 10c; oz. 30c; 1/4lb. 90c.

175 PRIZE HEAD. (45 days.) A large clustering, non-heading sort, most excellent for home gardens. Leaves broad, crumpled and frilled; outside leaves tinged red, inner ones entirely green. Very crisp, sweet and tender.
Pkt. 10c; oz. 30c; 1/4lb. 90c.

176 OAK LEAF. (40 days.) This excellent variety is noted for its ability to withstand hot weather without turning bitter. The tender, deep green leaves are smooth and lobed to resemble the leaf of an oak tree.
Pkt. 15c; oz. 50c; 1/4lb. \$1.50.

Crisp Heading Varieties

177 BIBB. (60 days.) A loose waxy head with very deep green outer leaves, bleaching to a rich yellowish green inside. Heads medium size, unusually crisp and tender, and of a distinct flavor. Very popular for family gardens. One of the best winter forcing varieties.
Pkt. 15c; oz. 40c; 1/4lb. \$1.25.

178 GREAT LAKES. (83 days.) Resistant to tip-burn. Heads are of good size. The dark green, attractively fringed leaves wrap tightly over the head; unusually crisp. Allow plenty of room for each plant—at least 14 inches each way.
Pkt. 25c; oz. \$1.10; 1/4lb. \$3.25.

179 ICEBERG. (82 days.) A beautiful Lettuce, with large, curly leaves of bright, light green, with a very slight reddish tint at the edges. Crisp, tender and fine flavor.
Pkt. 10c; oz. 35c; 1/4lb. \$1.00.

180 BIG BOSTON. (75 days.) Forms a large, compact head. Forces well in frames and is thoroughly satisfactory for outdoor crops in the spring or very late fall. Leaves are broad, comparatively smooth, bright, light green. Heads slightly tinged with reddish brown.
Pkt. 10c; oz. 35c; 1/4lb. \$1.00.

181 HANSON. (82 days.) A splendid summer heading sort and probably the most popular of its class in this section. The plants are compact, forming a large cabbage-like head which remains in good condition a long time.
Pkt. 10c; oz. 40c; 1/4lb. \$1.10.

182 NEW YORK NO. 12. (78 days.) Crisp, tender, free from bitterness. It produces immense heads, often 15 to 16 inches across and weighing enormously. The interior is beautifully blanched, creamy white. Withstands hot, dry weather.
Pkt. 15c; oz. 65c; 1/4lb. \$1.90.

183 DEER TONGUE. (80 days.) A butterhead type. Leaves are oblong to triangular, with rounded tip, slightly blistered or savoyed, attractive green and of excellent quality. Fully grown plants are compact, upright in growth, 12 inches across and 6 to 7 inches high.
Pkt. 15c; oz. 50c; 1/4lb. \$1.50.

184 PENNLAKE. (83 days.) 1949 All-America Bronze Medal Winner. Free from ribbiness; crisp and firm. Possesses heat tolerance without bolting. May be grown either as an early summer crop with a minimum of tip-burn or as a fall crop in field or frames.
Pkt. 20c; oz. 95c; 1/4lb. \$2.75.

Cos or Romaine Lettuce

This type of Lettuce forms upright, loose folding heads, and the inner leaves bleach white. Heads readily in almost any climate.

185 TRIANON COS. (66 days.) Makes a well-folded, cylindrical, medium green head. Interior pale greenish white. Smooth, crisp leaves with a distinct flavor.
Pkt. 10c; oz. 35c; 1/4lb. \$1.00.



177 Bibb Lettuce

MUSKMELON or CANTALOUPE

IT'S NOT HARD TO RAISE MELONS. They are so delicious a fruit that everyone who has any garden at all should raise some. All that is required is a good rich, well-manured soil that is not too heavy, and a warm, sunny situation.

Culture. Plant in May for early crop, in June for late crop. Seed is planted in hills 6 feet apart, putting 10 to 12 seeds to the hill and covering 1 inch deep. If land is not rich, use well-rotted manure or a little sheep manure mixed with the soil. When danger of insects is over, thin out to 4 plants to the hill.

Green-Fleshed Varieties

186 OHIO SUGAR. (91 days.) Resembles Tip Top but is green fleshed. Fruit is $7\frac{1}{2}$ inches long, $6\frac{1}{2}$ inches in diameter. A very good variety for the home garden.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

187 ROCKY FORD or NETTED GEM. (88 days.) Very sweet, thick green flesh with that spicy flavor that makes a Cantaloupe so delicious. The melons are oval-shaped, slightly ribbed, well covered with fine netting and are uniform in size and shape. Small seed cavity.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

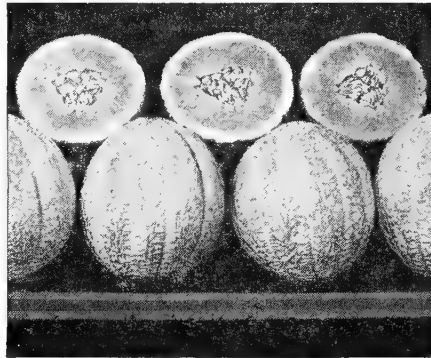
189 EXTRA EARLY HACKENSACK. (82 days.) Earlier than Large Hackensack. Produces medium-sized fruit, somewhat flattened, evenly deep ribs with coarse netting. The flesh is green, slightly tinged with yellow, juicy and sweet.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

190 LARGE HACKENSACK (Turk's Cap). (88 days.) An old and well-known sort producing very large, green-fleshed fruits that are nearly round and flattened. Flesh green, thick, juicy and sweet.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

A packet plants 12 hills, an ounce 50 hills, 2 pounds an acre.



193 Pride of Wisconsin Cantaloupe

191 HONEY DEW. (112 days.) The average size is about 6 inches in diameter, and it weighs 5 to 6 pounds. Smooth skin with a little netting, creamy yellow when ripe. The flesh is beautiful green next to the outside rind, shading to light green at center. Very thick, fine grained, and can be eaten almost to the rind.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

Orange-Fleshed Varieties

193 PRIDE OF WISCONSIN. (85 days.) Its deep-colored, sparkling orange flesh is totally unlike other Cantaloupe. Rind is strong and hard, with heavy, coarse netting. The seed cavity is triangular in shape. This melon is just the right size.

Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.10.

194 BENDER'S SURPRISE. (90 days.) Exquisitely fine flavor, large size and earliness make this new melon a great favorite. Fruit of oval shape; flesh deep orange, very thick, deliciously sweet and of high flavor. Grows fairly large, weighing up to 10 pounds each.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

196 HALE'S BEST. (86 days.) The nearly round fruits are normally 6 to $6\frac{1}{2}$ inches long, densely covered with a medium heavy netting and almost devoid of ribbing. The flesh is very thick and fine grained, deep salmon-pink in color, richly flavored.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

197 HEARTS OF GOLD or HOODOO. (92 days.) An orange-fleshed variety, ideal as a shipping melon and of the very finest quality. Fruit uniformly of medium size. Flesh very thick, firm, of fine texture and delicious flavor.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

198 HONEY ROCK or SUGAR ROCK. (85 days.) Its extreme earliness is not the least of its valuable qualities. Medium size, with a slate-gray rind and coarse, rope-like netting. Thick, pink flesh and a small seed cavity. The flavor is excellent.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

199 OSAGE or MILLER'S CREAM. (92 days.) A medium salmon-fleshed melon of excellent quality. Fruits are oval, dark green, slightly ribbed, tinged with gray. Flesh salmon color, thick and highly flavored. A splendid sort for late or main crop.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

200 TIP TOP. (90 days.) A popular sort with market gardeners, producing very large melons with ribbed but almost smooth skin. Flesh salmon, very deep, a little coarse but exceedingly sweet and delicious.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

201 BANANA. (96 days.) A long, smooth-skinned variety, growing somewhat in the shape of a long squash. Fruit about 12 inches long, with salmon flesh, which is very sweet, luscious and tender.

Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.

KALE

A popular crop for fall, winter and spring use as greens. Kale is a member of the Cabbage family with very curly, decorative leaves. One of the most hardy of all vegetables; in fact, the flavor is improved by frost. It is extremely rich in vitamins.

Culture. In this section it is usually sown broadcast from the middle of August to the middle of October. Scotch Kale is planted earlier. In the spring, seed can be sown in February, March and April.

A packet sows 30 feet of row, an ounce 200 feet, 3 pounds an acre.

164 DWARF BLUE SCOTCH. (55 days.) Dark blue-green and very curly. One of the most handsome varieties. On account of the short stems, the leaves rest practically on the ground. They are widespread and plumelike, very dense, dark blue-green, and retain their color after cutting.

Pkt. 10c; oz. 30c; $\frac{1}{4}$ lb. 90c.

165 DWARF SIBERIAN. (60 days.) A vigorous sort of spreading habit, its green foliage having a distinctive bluish tinge or bloom. Very hardy. A favorite in many sections for greens and extensively grown for forage.

Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 60c.

166 DWARF GREEN CURLED SCOTCH. (55 days.) A finely curled, spreading, low-growing variety, which is very popular in many trucking centers, especially in the East. The leaves are attractive, bright green and beautifully curled, which makes it excellent for garnishing. It must be sown earlier than other sorts, usually from July until the end of August, or in March. Can be sown either in drills or broadcast.

Pkt. 10c; oz. 30c; $\frac{1}{4}$ lb. 80c.

167 TALL GREEN CURLED SCOTCH. (60 days.) Leaves green, beautifully curled and wrinkled. Grows about 2 feet in height; hardy, and improved by frost.

Pkt. 10c; oz. 30c; $\frac{1}{4}$ lb. 85c.

KOHLRABI

A turnip-shaped bulb that is boiled and served like turnips. If used when young, it is tender and very desirable. May also be eaten raw like radishes after being chilled in the refrigerator, or combined with other vegetables in salads. Kohlrabi is unknown to many home gardeners but deserves a trial.

Culture. For early use sow in hotbeds and transplant. Out-of-doors sow in open ground the first part of April in rows 18 inches apart; thin out or transplant to 6 inches apart in the row.

A packet will sow 20 feet of row, $\frac{1}{2}$ ounce 100 feet.

168 EARLY PURPLE VIENNA. (60 days.) Very early, with small tops; bulbs good size. A variety of good quality.

Pkt. 15c; $\frac{1}{2}$ oz. 35c; oz. 60c.

169 EARLY WHITE VIENNA. (55 days.) Light green, smooth skin; flesh white and tender.

Pkt. 15c; $\frac{1}{2}$ oz. 35c; oz. 60c.

WATERMELONS

Watermelons do best on old, rich soil. When making the hills, well-rotted manure should be used, and it is better to prepare them some time before planting the seed. If cow manure cannot be obtained, use good commercial fertilizer or sheep manure mixed with the soil.

Culture. Treat like muskmelons but give more room—10 to 12 feet apart each way. For main crop plant in early May, for late crop in June.

A packet plants 6 hills, an ounce 20 hills, 2 pounds an acre.

205 EARLY KANSAS. (80 days.) The largest of all early melons. It combines sweet flavor and bright red flesh, solid to the rind, which is not thick. Nearly round, light green with broad wavy stripes.

Pkt. 10c; oz. 35c; ¼lb. \$1.00.

206 COLE'S EARLY (Harris' Early). (75 days.) A very popular early variety. Fruits medium sized, about 20 pounds, short oval, with alternate dark and light green stripes; tender rind. Flesh pink-red; seeds black.

Pkt. 10c; oz. 30c; ¼lb. 85c.

207 STONE MOUNTAIN. (90 days.) A melon of finest quality, claimed to be the sweetest of all the large varieties. It is almost round and has a dark green, medium thick rind. Flesh rich scarlet. It is not unusual to grow Stone Mountain weighing 70 to 80 pounds. For home use and nearby markets it is unexcelled.

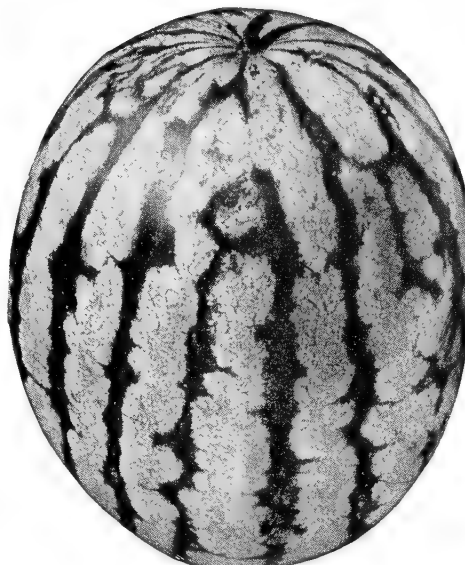
Pkt. 10c; oz. 30c; ¼lb. 85c.

208 TOM WATSON. (92 days.) A long, dark green melon, which has become exceedingly popular. Vines are vigorous and productive. Flesh rich bright red, very juicy and sweet. Most suitable for nearby markets, family gardens, and a favorite with truckers.

Pkt. 10c; oz. 30c; ¼lb. 85c.

209 KLECKLEY'S SWEET or MONTE CRISTO. (85 days.) One of the best flavored melons in cultivation and one of the best for home use or nearby markets. Long, very dark green with thin rind. Flesh deep red, of fine, delicious flavor.

Pkt. 10c; oz. 30c; ¼lb. 85c.



204 Dixie Queen
Wilt-Resistant Watermelon

210 FLORIDA GIANT. (88 days.) The largest and best of the so-called round type Watermelons. Dark green skin; flesh deep bright red, of very fine quality and flavor.

Pkt. 10c; oz. 30c; ¼lb. 90c.

211 SWEETHEART. (90 days.) The oval fruits are very large and heavy, with thin light green rind slightly veined darker. Flesh bright red, firm, very sweet. The fruits remain in condition a long time after ripening. A splendid sort for market or main crop.

Pkt. 10c; oz. 30c; ¼lb. 85c.

213 PEERLESS or ICE CREAM. (85 days.) A splendid early sort for home or market gardens. Vines moderately vigorous, hardy and very productive. Fruits are oblong, medium size, bright green, finely veined with darker shade. Flesh bright scarlet, crisp and very sweet.

Pkt. 10c; oz. 35c; ¼lb. 85c.

214 GEORGIA RATTLESNAKE. (90 days.) Also called Gypsy. Fruits are large, very long, of light green color, distinctly striped and blotched darker. The rind is remarkably thin though very tough; hence, it stands shipping well. Flesh most tender, sweet and luscious. Fruits are uniformly good quality.

Pkt. 10c; oz. 30c; ¼lb. 90c.

215 HALBERT'S HONEY. (87 days.) A long, dark green melon of moderate size but such splendid quality that it is especially desirable for market or home use. The rind is very thin. Flesh bright crimson and so crisp and tender that ripe melons will split ahead of the knife in cutting.

Pkt. 10c; oz. 30c; ¼lb. 85c.

216 SMALL RED SUGAR LUMP ICE-BOX. (90 days.) This new variety of midget Watermelon is about the size of a Honey Dew Muskmelon, and will weigh about 5 pounds with delicious rich red flesh and practically no rind. Originally came from Manchuria, and is necessarily very early.

Pkt. 20c; oz. 60c; ¼lb. \$1.75.

217 NEW HAMPSHIRE MIDGET WATERMELON. (75 days.) Early, up to six pounds in weight, productive, widely adapted, 1951 Gold Medal Winner.

Pkt. 25c; oz. 60c; ¼lb. \$1.75.

Wilt-Resistant Watermelons

In some gardens disease has discouraged the growing of Watermelons. We suggest that these wilt-resistant varieties be tried in those instances.

202 KLONDIKE STRIPED BLUE RIBBON, Wilt-Resistant. (80 days.) Considering eating, as well as shipping qualities, this variety is the best of the small melons. Flesh is deep red, sweet, stringless and melting. Rind light green, conspicuously striped with darker green, thin, hard and tough, making it desirable for shipping. Weight averages 25 pounds.

Pkt. 10c; oz. 40c; ¼lb. \$1.25.

203 KLECKLEY'S NO. 6, Wilt-Resistant. (88 days.) An improved Kleckley's Sweet type which has proved almost fully resistant to fusarium wilt. It is dark green, of good length, with deep red flesh and white seeds.

Pkt. 10c; oz. 30c; ¼lb. 90c.

204 DIXIE QUEEN, Wilt-Resistant. (85 days.) A leader for home gardens, local markets and shipping. Fruits nearly round, with light and dark green stripes; thin, tough rind. Flesh deep scarlet, crisp and sweet. Medium to large size; very uniform. The few seeds are white.

Pkt. 15c; oz. 50c; ¼lb. \$1.50.

MUSTARD

Mustard greens are as healthful and nourishing as spinach. The leaves are more tender, and the stems are not so long and coarse.

Culture. Sow broadcast or in drills 12 inches apart in March or April, or in September or October. Cut when 3 inches high.

A packet sows 50 feet of row, an ounce about 200 feet, 4 pounds an acre.

220 FORDHOOK FANCY. (50 days.) Dark green, deeply curled and fringed leaves curving backward like ostrich plumes. Of mild flavor; splendid for greens or salads.

Pkt. 10c; oz. 20c; ¼lb. 50c.

221 MUSTARD SPINACH or TENDER-GREEN. (45 days.) A desirable, quick-growing, tender variety with long, broad, fairly smooth leaves of dark green; white midribs. Slow to seed.

Pkt. 10c; oz. 20c; ¼lb. 50c.

222 SOUTHERN GIANT CURLED. (40 days.) A large sort with succulent, pungent leaves of sweet flavor. The best variety for use as greens.

Pkt. 10c; oz. 20c; ¼lb. 50c.

223 WHITE or YELLOW LONDON. For greens. The seed is largely used for pickles and flavoring.

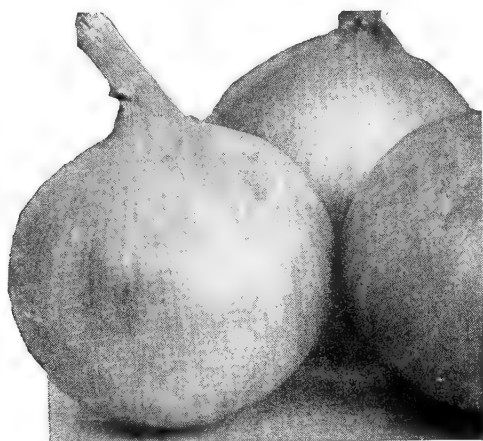
Pkt. 10c; oz. 15c; ¼lb. 40c.

PEANUTS

Peanuts can be successfully grown in warm, sandy soil in a sheltered place with a southern exposure. Plant in May or early June, in rows 2½ feet apart. Drop the shelled nuts 8 to 10 inches apart and cover 1 inch deep. When the plants are nearly full grown, hill them up with soil.

A packet sows 20 feet, a pound 150 feet.

IMPROVED VIRGINIA. Large and very prolific. Our seed is not shelled. Order 60 pounds per acre and shell before planting. Lb. 75c; 5 lbs. or more, 70c per lb.



231 Yellow Globe Danvers Onion

ONIONS

One of the most nutritious and healthful of vegetables, having excellent medicinal qualities as well as being most useful for flavoring salads, soups, meats, etc. Can be produced easily from either sets or seed.

Culture—Growing Large Onions From Seed. Seed is sown in rows 15 inches apart as early in the spring as ground can be worked, and covered about $\frac{1}{2}$ inch deep. When 2 to 3 inches tall, the young plants must be thinned to prevent crowding. They can be thinned again when 6 or 8 inches tall, and the plants removed can be used as green Onions. After that, they are pulled as needed, and those that are left to become fully ripe can be stored for winter.

A packet sows 20 feet of row, an ounce 200 feet, 4 pounds an acre.

230 HARDY WHITE BUNCHING. (120 days.) Used exclusively for green bunching, as it forms no bulbs. A hardy perennial that produces for many years. Seeds sown in the spring or summer will produce late in the fall or, if wintered over, very early the following spring. Thin to 8 to 12 inches after the first year. Tender and of mild flavor.

Pkt. 15c; $\frac{1}{2}$ oz. 45c; oz. 85c.

231 YELLOW GLOBE DANVERS. (110 days.) Bulbs of large size, uniformly globe shape with small necks, ripening evenly. Flesh creamy white, crisp and excellent flavor. Onions have a coppery yellow color, showy and handsome.

Pkt. 15c; $\frac{1}{2}$ oz. 40c; oz. 75c.

234 YELLOW SWEET SPANISH. (Utah strain.) (110 days.) A very large, globe-shaped, light yellow Onion with small top. An exceptionally fine shipper. It is a Spanish variety resembling Prizetaker, which has quickly become very popular.

Pkt. 15c; $\frac{1}{2}$ oz. 50c; oz. 95c.

235 WHITE PORTUGAL (Silverskin). (100 days.) A well-known and favorite variety making medium-sized Onions of mild flavor with beautiful, clear white skin. Largely used for sets and pickling Onions. Bulbs are nearly round when of bunching size but somewhat flattened when mature. One of the best flattened sorts for general use.

Pkt. 15c; $\frac{1}{2}$ oz. 50c; oz. 95c.

236 SOUTHPORT WHITE GLOBE. (110 days.) A fine early or main-crop sort for home garden. Flesh is firm, fine grained, white, mild and more desirable for cooking than the yellow or red sorts. Bulbs are globe-shaped and keep well.

Pkt. 15c; $\frac{1}{2}$ oz. 50c; oz. 95c.

Onion and Garlic Sets

ONION SETS. There are three distinct classes. **Potato or Hill Onions** can be planted in the fall from August to November and produce green spring Onions, large Onions, and Sets. **Perennial or Egyptian Top Onion Sets** are planted in the fall and produce green spring Onions early in the spring. **Bottom Sets**, yellow or white, are small Onions that were previously grown from seed. These set out early in the spring produce one large Onion from each set, toward the end of June or first of July. All Onion Sets are hardy and can be set in the open ground as early as the weather will permit. They are usually planted in rows 15 inches apart—4 inches for small sets and 6 to 8 inches apart for Potato Sets. Potato Onion Sets can also be planted in the spring. It takes about 16 bushels of Bottom Onion Sets per acre, and 20 to 25 bushels of Potato Onion Sets, according to the size and distance apart.

Prices of Onion Sets are subject to market changes. Prices on request.

GARLIC SETS. Garlic is used for flavoring choice foods. Easily grown mother sets are composed of several sections. Each section should be separated and planted individually, 4 to 6 inches apart in rows $1\frac{1}{2}$ to 3 feet apart. Cover with an inch of soil. Remove from soil when tops turn yellow, and dry in the shade.

$\frac{1}{2}$ lb. 60c; lb. \$1.00.

OKRA or GUMBO

Okra pods are used in soups, stews, catsup and other relishes and are rapidly becoming a most popular vegetable. They are at their best when 1 to 3 inches long.

Culture. Sow in drills $2\frac{1}{2}$ feet apart after the weather has become settled and warm. Thin out to 18 inches apart in rows. To keep for winter, slice the pods when young in narrow rings and string or hang in the shade to dry.

A packet sows 15 feet, an ounce about 50 feet, 8 pounds an acre.

224 WHITE VELVET. (60 days.) An early-maturing and very productive variety growing about $3\frac{1}{2}$ feet high. Pods white, long, smooth, and very tender. This is not so deeply ribbed as the green sorts and is very popular in some sections.

Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 50c.

225 DWARF STALK LONG GREEN. (50 days.) One of the most popular sorts in the South. Grows 3 feet high and produces large pods, deeply ribbed, tender and of fine flavor.

Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 50c.

226 PERKINS' MAMMOTH LONG POD (TALL). (60 days.) Produces long, slender, deep green pods which remain tender a long time.

Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 50c.

PARSNIPS

This fine vegetable should be in every home garden. Parsnips grow best in a loose, rich, sandy soil but will make good roots in any soil that is reasonably rich and deep. They are improved by freezing.

Culture. Sow in April in drills 18 inches apart, covering lightly. When the plants are about 2 inches high, thin out from 4 to 6 inches apart.

A packet sows 20 feet, $\frac{1}{2}$ ounce 100 feet, 3 pounds an acre.

242 HOLLOW CROWN. (95 days.) One of the best and most popular varieties for the table. Roots long, uniform in shape, with a smooth, white skin, tender and of good quality.

Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 60c.

PARSLEY

Easily grown and useful for many purposes, such as garnishing, seasoning salads and for ornaments. Grown in the garden as edging it is both decorative and profitable.

Culture. Seed is sown in rows $\frac{1}{2}$ inch deep and a foot apart. Cover firmly but not deep. Seed is slow to germinate, usually taking three to four weeks; soaking in water is desirable.

A packet sows 30 feet of row, an ounce 200 feet, 3 pounds an acre.

238 PARAMOUNT TRIPLE CURLED. (85 days.) Very compact, 9 to 12 inches tall; foliage dark green, very uniformly curled. Unexcelled for home garden, market garden or forcing.

Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c.

239 MOSS CURLED. (70 days.) A beautifully curled and crimped variety with finely cut and curled leaves. Excellent for garnishing.

Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 60c.

240 HAMBURG or ROOTED. (90 days.) Has plain leaves, which can be used like ordinary Parsley. Plants form edible roots resembling slender parsnips in color and shape, which are used for flavoring soups and stews. They can be dug late and stored in winter.

Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 60c.

241 PLAIN or SINGLE. (72 days.) Spreading plants with dense, long stem and dark green foliage. Leaves coarsely cut but not curled. Used for flavoring as well as for drying.

Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 60c.



239 Moss Curled Parsley

GARDEN PEAS

Our Peas are all Idaho grown, from select seed stock of excellent quality. The earliest sorts can be planted just as soon as the ground is in condition to work. They are not injured by light frosts. Wrinkled varieties should be planted a little later, for they are tender. For fall crop sow in August.

Culture. Peas succeed best in light, rich loamy soil. The early dwarf varieties can be planted in rows 2 feet apart, the tall varieties in rows 3 feet apart. Seeds should be planted at a depth of $1\frac{1}{2}$ to 2 inches. All varieties growing more than $1\frac{1}{2}$ feet high do better if staked up or otherwise supported when 4 to 6 inches tall.

A packet sows 20 feet of row, a pound 100 feet, 120 to 180 pounds an acre.

Early Varieties (Smooth Seed)

245 EXTRA EARLY. (54 days.) One of the best strains of extra early Peas, producing abundantly. Vines from 2 to $2\frac{1}{2}$ feet high; pods 3 to $3\frac{1}{2}$ inches long, well filled with delicious Peas. Yield is so abundant that it is the most profitable of all for market gardeners, and home gardens. Seed is white, smooth, medium size. Vines thrifty, vigorous, robust and extremely productive.

Pkt. 10c; $\frac{1}{2}$ lb. 20c; lb. 35c; 5 lbs. \$1.50.

246 ALASKA. (54 days.) A favorite producing long, straight pods that will stand shipping and remain green longer than white-seeded sorts. Vines about $2\frac{1}{2}$ feet high, fairly vigorous, usually producing good yields. Pods long, straight and of attractive appearance.

Pkt. 10c; $\frac{1}{2}$ lb. 20c; lb. 35c; 5 lbs. \$1.50.

247 EARLY BIRD. (60 days.) The earliest large-podded, dwarf sort. Vines about 18 inches high, with light green foliage. Produces an abundance of single and double, curved, pointed, medium dark green, attractive pods about 4 inches in length, with 9 to 10 Peas. Tender and of excellent flavor.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

Early Varieties (Wrinkled Seed)

248 GRADUS. (60 days.) One of the very best early, wrinkled, large-podded Peas. Vine of medium height, about 3 to $3\frac{1}{2}$ feet. The pods are 4 to $4\frac{1}{2}$ inches long, Peas very large, splendid quality and a beautiful light green color.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

249 THOMAS LAXTON. (60 days.) A very popular gardener's variety. Height 3 feet; vine and foliage moderately stout, medium green. Pods $3\frac{1}{2}$ inches long, straight and square ended, containing 7 medium dark green Peas of excellent quality. Extremely productive.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

250 LAXTONIAN. (63 days.) One of the largest podded of the dwarf wrinkled Peas. Pods are about 4 inches in length, of a beautiful dark green color and splendid quality. Vigorous, productive vines averaging 15 to 18 inches in height; dark green foliage.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

251 LITTLE MARVEL. (62 days.) An extra early dwarf wrinkled sort particularly suited to home gardens. Vines 15 to 18 inches high; vigorous, dark green foliage. Pods 3 inches long, round with blunt ends, often containing 7 rich, dark green Peas of high quality.

Pkt. 15c; $\frac{1}{2}$ lb. 30c; lb. 50c; 5 lbs. \$2.25.

252 AMERICAN WONDER. (60 days.) A favorite dwarf, early, wrinkled Pea that is splendid for family use. Vines about 9 inches to 1 foot high, covered with well-filled pods about $2\frac{3}{4}$ inches long, containing 5 to 8 large, exceedingly sweet, tender Peas.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

253 LAXTON'S PROGRESS. (62 days.) Produces the largest pods of any of the early dwarf varieties. Vines average about 18 inches in height. The large dark green pods are borne in abundance and are well filled with extra large, tender Peas of superior quality.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

254 NOTT'S EXCELSIOR. (60 days.) Remarkably hardy and can be planted almost as early as smooth sorts. Height 1 to $1\frac{1}{2}$ feet. One of the best for home gardens and profitable for market gardeners.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

255 PREMIUM GEM. (63 days.) This has long been a favorite among early dwarf Peas. Vines vigorous and productive, growing 15 to 18 inches high; pods $2\frac{3}{4}$ inches long, crowded with Peas of fine quality.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

256 WORLD'S RECORD. (60 days.) Grows 30 inches tall. Large-podded, extra early wrinkled Pea. Pods are uniformly large, measuring $4\frac{1}{2}$ to $5\frac{1}{2}$ inches, nearly round and packed with handsome wrinkled Peas of the finest flavor.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

Midseason Varieties (Wrinkled Seed)

257 DWARF TELEPHONE. (74 days.) Similar in general characteristics to the well-known Telephone. Pods $4\frac{1}{2}$ to 5 inches long, dark green; Peas large, of superior quality, tender and sweet. Vines 3 feet high.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

258 ALDERMAN. (75 days.) Yields more than any other variety. The pods resemble Telephone, but are larger and better filled, while the vines are more robust and more prolific. Height from 4 to 5 feet. For best results the vines should be given some support. The pods are immense, often 5 inches long, and contain 8 to 10 large Peas.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

259 IMPROVED TELEPHONE. (75 days.) One of the leading Peas with market gardeners on account of its vigorous, tall growth and productiveness. Vines about 4 feet high, producing an abundance of very large, light green, pointed pods. Peas large, tender, very sweet, excellent flavor.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

EDIBLE-PODDED or SUGAR PEAS

Cook Like String Beans

These varieties have all the sweetness and flavor of fresh green Peas. When the pods are partly filled, they are prepared like snap beans; when the seeds have developed, they are eaten as shelled Peas.

260 MAMMOTH MELTING SUGAR. (72 days.) Pods very large, $4\frac{1}{2}$ inches long, broad, curved and twisted. When young, they are very tender, stringless and fine flavored. Vines are $4\frac{1}{2}$ to 5 feet high, with light foliage; very strong growing and prolific.

Pkt. 15c; $\frac{1}{2}$ lb. 30c; lb. 50c; 5 lbs. \$2.25.

261 DWARF GREY SUGAR. (65 days.) Pods 3 inches long, light green in color, heavily curved. Vines are about 28 inches tall. A prolific variety and best of the dwarf edible-podded Peas.

Pkt. 15c; $\frac{1}{2}$ lb. 25c; lb. 45c; 5 lbs. \$2.00.

INOCULATION FOR PEAS

Increase your yields of Peas by treating the seeds before planting with

NITRAGIN INOCULATOR

We have it put up in convenient size for small gardens. 15 cts. each.

All Varieties of Vegetables Marked ● Are Excellent for Freezing



253 Laxton's Progress Peas

PEPPERS

Sweet or Mild

Culture. Peppers are not difficult to grow. For earliest yields sow in hotbeds and transplant to the open ground in May. Cover seed very lightly and keep the soil moist. Plants should be set about 15 inches apart in rows 2½ feet apart. If the Peppers are kept picked before they turn red, the plants will produce great numbers during the season.

A packet produces 100 plants, an ounce about 1000 plants.

263 KING OF THE NORTH. (64 days.) Makes a tremendous yield of large, sweet Peppers. The plants are medium size, covered with large fruit, rather long, narrow, tapering. Flesh is thick, mild and sweet, dark green turning to rich deep red when ripe.

Pkt. 15c; ½oz. 60c; oz. \$1.10.

264 CALIFORNIA WONDER. (74 days.) Resembles Chinese Giant in the large size and blocky form of its fruit but has an extremely thick flesh not possessed by that variety. Fruit crimson, measuring 4½ inches in length by 4 inches in diameter, mild, sweet.

Pkt. 15c; ½oz. 65c; oz. \$1.25.

265 EARLY CALWONDER. (68 days.) This relatively new variety is a valuable addition to the Pepper family not only for its earliness but also for its productiveness under less favorable conditions. Fruit approximately 4 inches long and 3½ inches in diameter, three and four lobed, sweet and mild. Turns bright crimson at maturity.

Pkt. 15c; ½oz. 65c; oz. \$1.25.

266 CHINESE GIANT. (80 days.) An enormous variety sometimes attaining 6 inches in diameter. It is very even in shape; flesh thick and sweet. Very handsome and of superior quality for stuffing. Plants are vigorous and fairly prolific. Very highly recommended for home and market.

Pkt. 15c; ½oz. 65c; oz. \$1.25.

267 BELL or BULL NOSE. (64 days.) A large, early sort of mild flavor. Plant vigorous, 2 feet high, very productive, ripening its crop early and uniformly. A splendid sort for salads, mangoes and stuffing. Color deep green, which becomes bright crimson when ripe.

Pkt. 15c; ½oz. 60c; oz. \$1.10.

268 RUBY KING. (68 days.) A very large and attractive sort, deep green when young, bright red when ripe. Flesh thick and mild. One of the best table sorts.

Pkt. 15c; ½oz. 60c; oz. \$1.10.

269 RUBY GIANT. (70 days.) A variety of Mango Pepper of a desirable size and shape for stuffing. A cross of Ruby King and Chinese Giant; grows to large size and is very mild.

Pkt. 15c; ½oz. 60c; oz. \$1.10.

270 WORLD BEATER. (70 days.) One of the best of the large Peppers. Fruit four-lobed, 5 inches long and 3½ inches in diameter. Flesh thick, mild and very sweet. Rich deep red when ripe.

Pkt. 15c; ½oz. 60c; oz. \$1.10.

271 GOLDEN QUEEN. (78 days.) A handsome, sweet, mild, yellow variety; fruit pendent, 4 inches long and about 3½ inches in diameter.

Pkt. 20c; ½oz. 80c; oz. \$1.50.

272 PIMENTO. (72 days.) Also known as Perfection. The fruit is of good size, medium length and attractive color. The flesh is thick and solid, mild and of fine flavor. Desirable for salads and stuffed Peppers. The fruit is deep green when young, becoming deep red as it matures.

Pkt. 15c; ½oz. 60c; oz. \$1.15.

Hot Peppers

273 HUNGARIAN YELLOW WAX. (60 days.) An early variety that is larger and has thicker flesh than other hot Peppers. The fruits are 5½ to 6½ inches long and about 1½ inches in diameter, crumpled and hooked at the point. The color is waxy yellow when young, changing to orange and then to bright red.

Pkt. 15c; ½oz. 65c; oz. \$1.25.

274 LONG RED CAYENNE. (70 days.) A well-known medium early sort, having slender, twisted and pointed fruits about 4 inches long. Extremely strong and pungent, hence valuable for seasoning. Generally known as Lady Finger Pepper.

Pkt. 15c; ½oz. 60c; oz. \$1.10.

SALSIFY

Often called "Oyster Plant." A desirable winter vegetable, easily grown. Roots are palatable and can be served boiled or as fritters.

Culture. Sow in April in rows 18 inches apart, thinning out to 4 to 6 inches. It is hardy and will remain out all winter, but if desired can be dug before winter and stored in earth or sand to keep it from wilting.

A packet sows 20 feet, an ounce 100 feet, 8 pounds an acre.

308 MAMMOTH SANDWICH ISLAND. (150 days.) The best sort, which is much larger and a great improvement over the old-fashioned long variety.

Pkt. 15c; ½oz. 45c; oz. 85c.



287 Connecticut Field Pumpkin

PUMPKIN

A few hills of Pumpkins should be in every garden. The quality of home-grown Pumpkins is far superior to the canned product.

Culture. Generally planted in corn after the last working and gathered after corn has been shocked. For field crop, plant in May or June in hills 8 feet apart, about 5 to 10 seeds to the hill, and cultivate until the vines get strong; then thin out leaving two or three of the strongest plants in each hill.

A packet plants 5 hills, an ounce 20 hills, 4 pounds an acre.

280 KING OF THE MAMMOTHS or POTIRON. (120 days.) An enormous flattened variety sometimes attaining 60 to 90 pounds in weight. It is especially desirable for exhibition purposes and will find ready sale in most large cities at good prices.

Pkt. 10c; oz. 30c; ¼lb. 90c.

281 JAPANESE PIE. (110 days.) Resembles the Cushaw Pumpkin in shape but is earlier and larger. Skin dark green, with lighter green stripes. Flesh yellowish orange, fine grained, of good flavor and quality. Weight about 12 pounds.

Pkt. 10c; oz. 30c; ¼lb. 85c.

282 TENNESSEE SWEET POTATO. (110 days.) Medium size, of creamy yellow color with light green stripes. Flesh thick, fine grained, dry, brittle and of excellent flavor. Unsurpassed for pies and custards.

Pkt. 10c; oz. 30c; ¼lb. 85c.

283 GREEN STRIPED CUSHAW. (112 days.) Fruit fairly large, with crooked neck. Skin creamy white with green stripes. Flesh yellow, very thick, rather coarse but sweet.

Pkt. 10c; oz. 25c; ¼lb. 75c.

286 SUGAR or NEW ENGLAND PIE. (108 days.) One of the best for the home garden. An excellent pie sort. Nearly round, 10 to 12 inches in diameter, rich orange color. Flesh thick, fine grained, very sweet.

Pkt. 10c; oz. 25c; ¼lb. 75c.

287 CONNECTICUT FIELD. (118 days.) Used for planting in corn, for stock feeding and also for making pies. Fruits often 15 inches in diameter; smooth, reddish orange, ribbed skin with orange-yellow flesh.

Pkt. 10c; oz. 25c; ¼lb. 75c.

288 KENTUCKY FIELD. (120 days.) Most commonly known and widely grown for canning and stock feed. A hardy grower and good keeper. Fruits very much flattened, creamy yellow color; flesh orange. Very productive.

Pkt. 10c; oz. 20c; ¼lb. 55c.

289 GOLDEN CUSHAW. (115 days.) A large type used for baking, boiling, canning and for pies. Fruits about 20 inches long, 9 inches in diameter, golden yellow in color, complete crooked neck which is long and slender. Flesh is sweet, tender and rich golden yellow in color.

Pkt. 10c; ½oz. 40c; oz. 75c.

TAMPALA

333 TAMPALA. (55 days.) A delicious green vegetable with leaves that are cooked and served like spinach. Plants 1½ feet across, 2 feet high.

Pkt. 15c; ½oz. 45c; ¼oz. 75c.

RADISH • Finest Seed Stocks

Culture. For forcing in frames sow in January or February. Out-of-doors, sow from March to June for early summer crop, from July to September for late use. Early sorts mature and are ready for the table in 21 to 30 days from sowing. Quick growth is essential for tender, crisp Radishes. Hence, rich soil and plenty of moisture are essential. They can be sown at intervals of ten days to two weeks for early use or as a catch crop between rows of beets, lettuce, onions, etc.

A packet sows 20 feet of row, an ounce 100 feet, 10 pounds an acre broadcast.

Round Varieties

290 EARLY WHITE-TIPPED SCARLET. (25 days.) One of the handsomest and a general favorite in nearly all large markets. It is excellent as a forcing sort or for earliest planting outdoors. Roots nearly round, slightly flattened on under side. Color very deep scarlet with distinctive white tip. White flesh of best quality. Pkt. 10c; oz. 20c; ¼lb. 50c.

291 EARLY WHITE TURNIP. (25 days.) Similar to Early Scarlet Turnip but a little more flattened and slightly earlier. Very small tops. Of quick growth, suitable for forcing or early planting. Color clear white; flesh crisp and tender. Pkt. 10c; oz. 20c; ¼lb. 60c.

292 CHERRY BELLE. (22 days.) Shown in color, page 12. All-America Bronze Medal Winner, 1949. A popular short-topped Scarlet Globe type for both forcing and outdoor garden use. Round, smooth and red, with crisp, firm white flesh. Extra early. Well recommended. Pkt. 10c; oz. 25c; ¼lb. 75c.

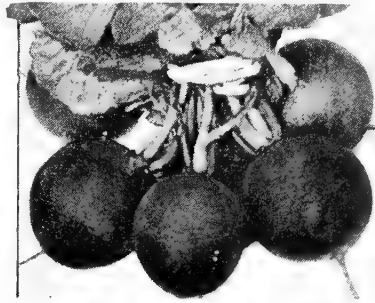
294 FRENCH BREAKFAST. (24 days.) A small olive-shaped variety about 1½ inches long, which is very quick growing. Color beautiful deep scarlet shading to white at the tip; top small. Quick maturing and splendid for very earliest crop. Pkt. 10c; oz. 20c; ¼lb. 50c.

295 CRIMSON GIANT. (28 days.) Suitable both for forcing and for early planting out-of-doors. A remarkable feature is that it will grow double the size of other red forcing Radishes and still remain solid. Pkt. 10c; oz. 20c; ¼lb. 50c.

296 EARLY SCARLET GLOBE. (22 days.) One of the very best Radishes for earliest forcing or growing outside. Roots are slightly olive shape, rich bright scarlet color; flesh white and tender. Especially desirable for market and home gardeners on account of the showy qualities. Pkt. 10c; oz. 20c; ¼lb. 50c.

297 COMET. (25 days.) All-America Selection. A bright clear red, globe-shaped bunching or table Radish. Medium-sized top. Remains firm longer than most early globe varieties. Good for home and market gardens. Pkt. 10c; oz. 20c; ¼lb. 50c.

For best results treat your vegetable seeds with seed disinfectants to protect them from fungus, molds and damping off. See page 57.



296 Early Scarlet Globe Radishes

Long Varieties

298 CINCINNATI MARKET. (27 days.) Brilliant crimson with white flesh, sweet and tender. Grows 6 to 7 inches, straight and smooth, and does not become pithy until very old. Fine for market or home use. Pkt. 10c; oz. 20c; ¼lb. 50c.

299 LONG SCARLET SHORT TOP. (27 days.) For home or market. Tops short, small. Roots smooth, tender, bright red. Pkt. 10c; oz. 20c; ¼lb. 50c.

300 WHITE ICICLE. (27 days.) The earliest long white variety for forcing and earliest outdoor crop. Productive, crisp and tender. Roots 5 to 6 inches long, with small tops. Pkt. 10c; oz. 20c; ¼lb. 50c.

301 WHITE STRASBURG. (40 days.) A long, white Radish for summer use, remaining crisp and tender. Roots 1½ to 3 inches thick, 5 to 6 inches long, tapering. Tops medium; roots smooth, crystal white. For market or family use. Pkt. 10c; oz. 20c; ¼oz. 50c.

Fall Radishes

302 LONG BLACK SPANISH. (55 days.) Long, thick, almost black roots, with white flesh. Pungent but well flavored. Roots 7 to 9 inches long and 2 to 3 inches in diameter. Pkt. 10c; oz. 20c; ¼lb. 60c.

303 CHINESE ROSE WINTER. (50 days.) Cylindrical roots, blunt at ends. Bright, deep rose shading to white. Skin smooth; flesh white, crisp, tender, pungent. Roots 4 to 5 inches long, 1½ to 2 inches in diameter. Pkt. 10c; oz. 20c; ¼lb. 60c.

304 CHINESE WHITE WINTER (Celestial). (55 days.) A large, stump-rooted Radish with white skin and flesh. Will keep a long time. Mild in flavor, brittle and never woody. Fine for market gardeners. Pkt. 10c; oz. 20c; ¼lb. 60c.

305 CALIFORNIA MAMMOTH WHITE WINTER. (53 days.) Giant roots 9 to 12 inches long, 2 to 3 inches through, tapering to the tips, smooth and cylindrical. Skin and flesh white, tender and crisp. Pkt. 10c; oz. 20c; ¼lb. 60c.

306 ROUND BLACK SPANISH. (55 days.) Roots globe shaped, 3½ to 4 inches in diameter. Skin roughened, black; flesh white, firm, crisp, and pungent. Pkt. 10c; oz. 20c; ¼lb. 60c.

SPINACH

MATURITY DATES following variety names are average days from sowing time until vegetable is ready for use.

Has long been one of the most popular of all greens. In this locality Spinach is sown broadcast in March or April for early crop and from July to September for fall and winter crop at the rate of about 12 to 20 pounds per acre. It can also be sown in drills 12 to 15 inches apart and cultivated.

A packet sows 25 feet, an ounce 75 feet in drills, 12 pounds an acre in drills, 20 pounds an acre broadcast. ½ pound is sufficient for a garden of medium size.

309 BLOOMSDALE LONG STANDING.

● (45 days.) Quick-growing hardy Spinach extensively planted for home and market use as well as for canning. The glossy green leaves are intensively crinkled and blistered and of a very heavy texture. Valuable for spring sowing or planting in the fall. Remains in the rosette stage for a long time without bolting.

Pkt. 10c; oz. 15c; ¼lb. 30c.

310 OLD DOMINION. ● (40 days.) A long-standing blight-resistant variety. It has the large, dark green, crumpled leaf of the Savoy and stands up longer than other blight-resistant kinds. This variety yields large crops and holds up well when cut. Very valuable for spring sowing in places where Spinach blights.

Pkt. 10c; oz. 15c; ¼lb. 30c.

311 BLOOMSDALE SAVOY RESELECTED. ● (40 days.) A very early sort, especially desirable for fall use.

Plant is upright, having glossy, thick, crumpled, pointed, green leaves. A favorite sort for market gardeners and truckers.

Pkt. 10c; oz. 15c; ¼lb. 30c.

312 VIRGINIA BLIGHT-RESISTANT SAVOY. ● (40 days.) Developed at Virginia Experiment Station for mosaic resistance. Upstanding, vigorous plants that will stand three or four days longer before bolting. A valuable variety where blight is injurious to Spinach plantings.

Pkt. 10c; oz. 15c; ¼lb. 30c.

313 KING OF DENMARK. (48 days.) A very long-standing variety for home gardens and canning. Large, thick, smooth, dark green leaves, slightly crumpled.

Pkt. 10c; oz. 15c; ¼lb. 30c.

314 NEW ZEALAND. (55 days.) The hot-weather Spinach. An especially desirable sort for summer use, because it thrives during hot weather when other Spinach would fail. It has tender shoots of good quality, which may be cut throughout the summer. Plant becomes very large and spreading; leaves small, broad and pointed. Plant 3 to 4 seeds in hills 2 feet apart each way. Germination will be hastened by soaking seed in warm water 24 hours before planting.

Pkt. 10c; oz. 15c; ¼lb. 40c.

● Suitable for Freezing



322 Table Queen Squash

SQUASH

Called Cymling in the South

Culture. Plant when the ground is fairly warm. Bush varieties are planted in hills 3 by 4 feet apart, running varieties 6 by 8 feet, about 4 to 6 seeds per hill, and thinned out later, leaving about three of the strongest plants in each hill. Hills similar to those made for cucumber with well-rotted manure or fertilizer are best. Winter varieties may be stored in a moderately warm, dry place of even temperature.

Summer Squash: a packet plants 8 to 10 hills, an ounce 30 hills, 4 pounds an acre.
Winter Squash: a packet plants 6 to 8 hills, an ounce 15 hills, 2 pounds an acre.

Summer Varieties

315 COCOZELLE GREEN BUSH or ITALIAN VEGETABLE MARROW. (60 days.) Delicious and fine flavored. The color is deep green when young, ripening with alternate stripes of green and gold. The shape is long and slender. It is used when 10 to 12 inches long and is boiled or cut in slices and fried in butter.
Pkt. 10c; oz. 30c; 1/4lb. 85c.

316 EARLY PROLIFIC STRAIGHT-NECK. ● (50 days.) Plants strictly bush and compact with ample foliage, permitting close planting. Fruits straight, smooth, and of delicate creamy color; firm and usable when only 4 to 5 inches long and until 12 to 14 inches long. Quality unsurpassed. Suitable for home, market garden and shipment.
Pkt. 10c; oz. 25c; 1/4lb. 75c.

317 GIANT SUMMMER STRAIGHT-NECK. (55 days.) This summer Squash has almost entirely replaced the Crook-neck type in both home and commercial gardens. It differs from Crookneck only in shape; the "neck" instead of being curved is straight and more attractive in appearance and much easier to pack in crates for shipping. The fruit is lemon-yellow in color, about 14 inches long and 3 1/2 inches in diameter.
Pkt. 10c; oz. 25c; 1/4lb. 75c.

318 EARLY YELLOW SUMMER CROOKNECK. ● (52 days.) An extensively used summer sort, with bush type of plant; very prolific. Fruits curved at neck, covered with warts and weighing about 3 pounds. Color is light yellow at early stage.
Pkt. 10c; oz. 25c; 1/4lb. 75c.

319 GIANT SUMMER CROOKNECK. (60 days.) Long, slim, pear-shaped fruits with curved necks. The flesh is firm, juicy and creamy white; early and productive.
Pkt. 10c; oz. 25c; 1/4lb. 75c.

320 EARLY WHITE BUSH SCALLOP (White Patty Pan). (54 days.) Fruit is creamy white and scalloped around the edges; milk-white, deliciously flavored flesh. Widely used for stewing or boiling.
Pkt. 10c; oz. 25c; 1/4lb. 75c.

321 MAMMOTH WHITE BUSH SCALLOP. (58 days.) Creamy white fruit with comparatively smooth surface, somewhat flattened and scalloped. Vines are bushy, vigorous and very productive.
Pkt. 10c; oz. 25c; 1/4lb. 75c.

Winter Varieties

322 TABLE QUEEN or DES MOINES. (58 days.) Also called Acorn. Trailing in habit, with acorn-shaped fruits, which average about 6 inches long by 4 inches wide, just right to serve one-half to a person. Color dark green, except when over-ripe, when it changes to buff. Sweet orange-colored flesh.
Pkt. 10c; oz. 30c; 1/4lb. 85c.

323 IMPROVED HUBBARD. (105 days.) One of the best winter Squashes. Flesh bright orange-yellow, fine grained, very dry, sweet and richly flavored. Fruit large, pointed at both ends, slightly warted; skin bronze-green. Excellent keeper.
Pkt. 10c; oz. 30c; 1/4lb. 85c.

324 GOLDEN HUBBARD. ● (100 days.) Similar to the old Hubbard except that the skin is of a rich orange-red and heavily warted; flesh of extra fine quality.
Pkt. 10c; oz. 30c; 1/4lb. 85c.

325 WARTED HUBBARD. (105 days.) Similar in shape to Hubbard except that the surface is very much warted. Very handsome in appearance and of extra quality.
Pkt. 10c; oz. 30c; 1/4lb. 85c.

326 BLUE HUBBARD. (120 days.) The fruits are an attractive blue-gray color, larger than the True Hubbard. The shell is rough and very hard; keeping qualities good. The flesh is bright yellow-orange, fine grained, dry and exceptionally sweet. Fruits grow 15 to 18 inches long and 9 to 12 inches across; average weight 15 pounds each.
Pkt. 10c; oz. 30c; 1/4lb. 90c.

327 BANANA. (105 days.) Fruit 18 to 24 inches long and about 7 inches in diameter. Skin gray-blue, not so hard as that of the Hubbards. Flesh deep yellow, fine grained, dry, sweet.
Pkt. 10c; oz. 30c; 1/4lb. 95c.

328 UCONN. (75 days.) 1950 All-America Gold Medal Winner. Bush type with acorn-shaped fruits, similar to Table Queen but smaller. Fruits smooth, light green when young, orange when over-mature.
Pkt. 10c; oz. 30c; 1/4lb. 80c.

SAGE

307 BROAD LEAF. An ornamental gray-leaved plant with blue flowers. Pick the leaves when half grown, dry, and powder them. An old favorite for flavoring meat and poultry dressings. Sow in the open ground. Thin plants to 6 inches apart.
Pkt. 15c; 1/2oz. 60c; oz. \$1.00.

TURNIPS

Culture. For early use, sow in March or April, either broadcast or in drills. Turnips for main crop are sown from July to September 15, broadcast 1 1/2 to 2 pounds per acre. Turnips for greens can be sown as late as October 1.

A packet sows 50 feet, an ounce 250 feet, 2 pounds an acre.

365 EARLY PURPLE TOP MILAN. (40 days.) An early variety that is very sweet. Roots are medium size, plants purple, top flat. Best for private gardens and preferable for early market crop.
Pkt. 10c; oz. 15c; 1/4lb. 45c.

366 PURPLE TOP STRAP-LEAVED. (45 days.) A well-known early sort largely used in all sections. Our stock is extra choice.
Pkt. 10c; oz. 15c; 1/4lb. 35c.

367 PURPLE TOP WHITE GLOBE. (55 days.) A very superior strain, producing large, smooth roots, which are sweet and tender. One of the best for early or main crop. Excellent when young or fully matured.
Pkt. 10c; oz. 15c; 1/4lb. 35c.

368 POMERANIAN WHITE GLOBE. (75 days.) Flesh white, firm and crisp. A very desirable variety.
Pkt. 10c; oz. 15c; 1/4lb. 35c.

369 SEVEN TOP, FOR TURNIP GREENS. (45 days.) Used entirely for greens; popular in the South.
Pkt. 10c; oz. 20c; 1/4lb. 60c.

RUTABAGA or Swedish Turnip

Culture. Rutabagas require longer to mature than common Turnips and should be sown earlier. Sow the seed June 15 to July 1, in rows 2 to 2 1/2 feet apart. Thin the plants to a foot apart.

A packet sows 50 feet, an ounce 250 feet.

370 AMERICAN PURPLE TOP. (90 days.) Extra choice yielder of fine flavor and good keeping quality. Roots 5 to 6 inches in diameter, globe to top shaped. Skin buff, with purplish red above ground and light yellow below.
Pkt. 10c; oz. 15c; 1/4lb. 30c.



367 Purple Top White Globe Turnip

TOMATO

Culture. For earliest crop, sow in a hotbed or shallow boxes in February or March and transplant when 2 or 3 inches high to small pots, trays or cold-frames. When danger of frost is past (usually in this climate May 1 to 10), set in open ground 3 by 4 feet apart. Tomatoes should be staked to keep the fruit from the ground, to prevent blight and mildew, and to make them more prolific. For late crop sow in open bed in April or May.

A packet produces 200 plants, an ounce about 2000 plants, 2 ounces enough plants for an acre.

The number of days indicated represents the time required from setting of plants to picking of fruit.

Hybrid Varieties

These varieties are all bred for extra vigor, disease resistance, yield and improved fruits. This breeding is very expensive, for it is accomplished by hand pollination.

334 McCULLOUGH'S HYBRID. (Shown in color, page 12. (58 days.) New extra early true hybrid. Fruits globular, smooth, bright red. Yields from early June to frost. Quality excellent; flesh firm; flavor mild. Adapted to home or early market gardening. Pkt. (approximately 35 seeds) 35c; 3 pkts. \$1.00.

335 STOKESCROSS NO. 5 HYBRID. (75 days.) Distinguished by its amazing vigor. Fruit medium size, uniformly deep red. Rich flavor; excellent for slicing and canning. Well recommended for home and market because of its quality, firmness and color. Pkt. (approximately 200 seeds) 50c; large pkt. (approximately 500 seeds) \$1.00; oz. (approximately 5000 seeds) \$5.00.

Disease-Resistant Varieties

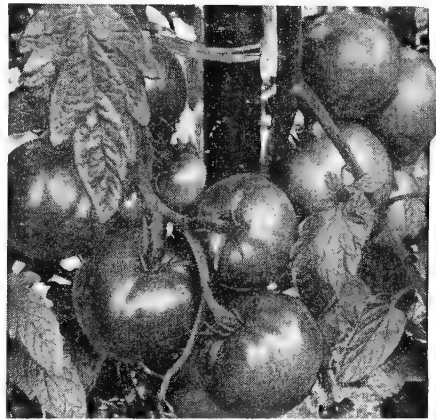
336 RUTGERS CERTIFIED. (73 days.) An introduction by the New Jersey Experiment Station which has achieved general popularity. The fruit is large, globe shaped, deep red; small seed cavities and heavy cross walls. Ripens from the interior outward. One of the finest grown. Pkt. 15c; 1/2oz. 55c; oz. \$1.00.

337 BREAK O'DAY. (68 days.) The round, smooth fruit matures early. Color deep orange-red; very solid and of high quality. Resistant to blight; productive. Pkt. 15c; 1/2oz. 65c; oz. \$1.25.

338 MARGLOBE CERTIFIED. (75 days.) A main-crop, blight-resistant variety. Fruits are large, globe shaped, smooth, coloring perfectly all over. Deep red all through. Resistant to fusarium wilt and nail-head rust. Pkt. 15c; 1/2oz. 55c; oz. \$1.00.

339 PRITCHARD or SCARLET TOPPER CERTIFIED. (75 days.) This is one of the finest Tomatoes ever grown. The fruits are medium to large, round, brilliant red; flesh is thick, firm, and with small seed cavity. The fruit is resistant to cracking. Excellent home and market variety. Pkt. 15c; 1/2oz. 65c; oz. \$1.25.

340 SOUTHLAND CERTIFIED. (75 days.) Resistant to fusarium wilt and collar-rot. Considerable resistance to late blight and moderate resistance to early blight. Fruits scarlet-red, smooth, oblate shaped. Suitable for home gardens, canning and shipping. Pkt. 25c; 1/2oz. \$1.10; oz. \$2.00.



338 Marglobe Certified Tomato

Early Varieties

341 VALIANT CERTIFIED. (70 days.) For short-season areas and early market. Fruit is large for an early variety, smooth, globe shaped, bright scarlet. Pkt. 15c; 1/2oz. 55c; oz. \$1.00.

342 BONNY BEST. (70 days.) The crop ripens more uniformly than any other early scarlet-fruited sort. Vines are vigorous and produce large, smooth, bright deep scarlet fruits of good quality. Pkt. 15c; 1/2oz. 55c; oz. \$1.00.

343 CHALK'S EARLY JEWEL. (70 days.) Purplish scarlet fruit, nearly round, smooth, large; excellent quality. Ripens early and is not inclined to crack. Pkt. 15c; 1/2oz. 55c; oz. \$1.00.

344 EARLIANA. (64 days.) Deep scarlet; very early. Medium to large, nearly round and very smooth, borne in clusters. Pkt. 15c; 1/2oz. 50c; oz. 95c.

345 JOHN BAER. (70 days.) Similar to Bonny Best but often a few days earlier. Fruits bright deep scarlet-red, medium large, flattened, globe shaped, smooth and firm. Pkt. 10c; 1/2oz. 45c; oz. 85c.

Second Early and Main Crop

346 BEAUTY. (84 days.) A favorite here for home use. Very round, smooth, solid and of splendid flavor. Vigorous and productive. Fruits of large size and rich flavor, very meaty. Pkt. 15c; 1/2oz. 55c; oz. \$1.00.

347 CRIMSON CUSHION or BEEF-STEAK. (90 days.) Very large, round; bright scarlet skin, solid flesh. Very prolific. Pkt. 15c; 1/2oz. 65c; oz. \$1.25.

348 GREATER BALTIMORE. (78 days.) A heavy, thick-meated, midseason, scarlet-red variety. Large, smooth and solid. Pkt. 10c; 1/2oz. 40c; oz. 75c.

349 OXHEART. (90 days.) Fruit of ox-heart shape, large, of excellent table quality. Skin purple; flesh frequently 2 inches thick, without a seed cavity. Flavor delicious. Pkt. 15c; 1/2oz. 65c; oz. \$1.25.

350 PONDEROSA. (85 days.) One of the largest and finest for home use. Vines vigorous, tall, fairly productive. Fruits purplish pink, very solid, with few seeds. Very free from acid. Excellent for slicing. Pkt. 15c; 1/2oz. 60c; oz. \$1.10.

351 STONE CERTIFIED. (85 days.) Large, very smooth, solid fruit, slightly flattened, deep red. Large yielder. Pkt. 15c; 1/2oz. 55c; oz. \$1.00.

352 TRUCKERS FAVORITE. (83 days.) A large, deep purple variety, producing fruit of uniform size. It is somewhat deeper in color than Beauty and more globe-shaped. Fine yields of large, smooth, solid fruits; very popular with truckers and market gardeners. Pkt. 15c; 1/2oz. 50c; oz. 90c.

We recommend using CERTIFIED Tomato Seed when available. CERTIFIED means the seed is from plants that were inspected and CERTIFIED by State Departments of Agriculture where the seed was grown. The seed is CERTIFIED to be free from seed-borne diseases.

Yellow Tomatoes

355 YELLOW PONDEROSA. (86 days.) A large, mild-flavored variety, strongly resistant to wilt. Fruits very large, golden yellow, quite solid, with small seed cells. Pkt. 15c; 1/2oz. 65c; oz. \$1.25.

356 JUBILEE. (72 days.) Bright golden orange fruits of deep globe shape, weighing about 6 ounces. The orange-colored interior is thick walled, with few seeds; most attractive when sliced. The juice is rich orange colored, full flavored and really delicious. Pkt. 15c; 1/2oz. 65c; oz. \$1.25.

Small-Fruited Tomatoes

358 RED CHERRY. (75 days.) Fruits small, round, rich deep red. Pkt. 15c.

360 YELLOW PEAR. (75 days.) Pear shaped, about 2 inches long. Pkt. 15c.

361 YELLOW PLUM. (75 days.) Fruits oval, 2 inches long, deep yellow. Pkt. 15c.

TOBACCO

Culture. Sow seeds thinly from February to April in frames on a well-prepared seed bed. Press seed gently into the soil but do not cover it.

A packet produces 200 plants, an ounce 5000 plants, 2 ounces sufficient plants for an acre.

Fermate. Spray with Fermate to control blue mold in seed beds. Circular on request. See page 57.

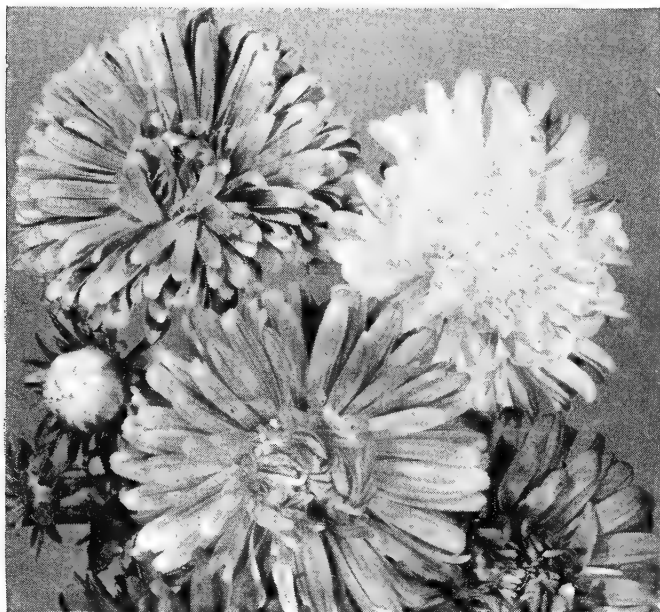
329 KENTUCKY 16 CERTIFIED. High-yielding, stand-up, good quality Burley. Moderately resistant to black root-rot; widely adapted. Pkt. 20c; 1/2oz. 65c; oz. \$1.25.

330 KENTUCKY 26. A new stand-up golden Burley. Excellent leaf qualities and yield. Moderately resistant to black root-rot. Pkt. 20c; 1/2oz. 65c; oz. \$1.25.

331 KENTUCKY 35. A new stand-up Burley. Resistant to black root-rot, mosaic and fusarium wilt. Not to be grown near new potato patches or heavy pollen-producing plants like corn, since it is susceptible to vein banding. Pkt. 20c; 1/2oz. 65c; oz. \$1.25.

332 KENTUCKY 57. A new stand-up Burley. Highly resistant to black root-rot and resistant to mosaic. Good to use where grown on land continuously. Pkt. 20c; 1/2oz. 65c; oz. \$1.25.

New Flowers and Specialties



1520 ASTER, Ballet Type (Wilt-Resistant)

1501 TITHONIA, Torch All-America Silver Medal Winner, 1951

Shown in color page 33

Orange-red, easily grown annual that thrives in hot weather. A cut flower that blooms from August to frost. Only waist-high, compact enough for any garden. Disease-free plants. **Pkt. 25c**

1502 PETUNIA, Fire Chief All-America Gold Medal Winner, 1950

The reddest Petunia you have ever seen. The large, single red blooms are borne in profusion all season, holding their bright color without fading. Erect growth about a foot high, freely branched but strong and upright. Attractive in beds and borders, as an edging or pot plant. Combines well with other garden flowers. **Pkt. 25c**

1503 PETUNIA, Illumination (All-Double)

Beautiful bright red with scarlet sheen. Large, well-fringed flowers on plants of good habit. Recommended for all purposes. **Pkt. (100 seeds) \$1.25**

1504 PETUNIA, Purple Glow (All-Double)

Deep glowing purple with velvety overtone of shiny blue. Well-fringed flower over 3½ inches across. Uniformly dwarf growth. **Pkt. (100 seeds) \$1.25**

1505 PETUNIA, Silver Blue (All-Double)

Clear blue, well-fringed blooms without veins; as large as other Victorious strains. Compact plant habit. **Pkt. (100 seeds) \$1.25**

1506 PETUNIA, Pure White (All-Double)

A superfine dwarf plant rarely exceeding 10 inches in height. Flowers average 4 inches across and are delightfully fluffy and fringed. Purest white. **Pkt. (100 seeds) \$1.25**

1507 PETUNIA, Mixed (All-Double)

All-Double Victorious Petunias mixed from named varieties. Dwarf habit and large, well-fringed flowers. **Pkt. (100 seeds) \$1.25**

1508 PETUNIA, Pink Sensation

Rose-pink with deeper veining that extends well toward the edge of the petals from the white interior of the corolla tube. Flowers 3 to 3½ inches in diameter. Plants very vigorous, about 2 feet tall and as much as 4 feet across. Very compact, producing bloom close to the ground. **Pkt. 35c**

1509 PETUNIA, Silver Medal All-America Silver Medal Winner, 1949

A new hybrid of an entirely new color—rich salmon. A profuse bloomer growing 1 foot tall. **Pkt. (100 seeds) 50c**

1510 PANSY, Pay Dirt

The largest golden yellow Pansy ever produced. Flowers have dark rays or tiny faces. Fine growth habit and more heat resistant. **Pkt. 75c**

1511 PANSY, Raspberry Rose

Beautiful new color in Pansies—deep raspberry. Good habit of growth and more heat resistant. **Pkt. 75c**

LARKSPUR, Regal Strain

A new type of florist's Larkspur of the same height and compact basal branching habit as the Giant Imperial strain but featuring a very long spike of well-spaced florets as large as those of delphiniums. Very vigorous and quite early flowering.

1512 Regal Dark Blue

1516 Regal Lilac

1513 Regal Pink

1517 Regal Salmon-Rose

1514 Regal Rose

1518 Regal Mixed

1515 Regal White

Each, pkt. 25c

1519 ASTER, Ballet Queen (Wilt-Resistant)

Deep rose touched with salmon, assuming a soft bronze color when many flowers are massed in sunlight. Extremely double, 3½-inch flowers, useful for both bedding and cutting. Early and free blooming. Fine border plant, since it is wilt-resistant. **Pkt. 20c**

1520 ASTER, Ballet Type (Wilt-Resistant)

The earliest of all Asters, with distinctive crested center. It is this full center that makes the Ballet Type extremely double. In addition it is very wilt-resistant. Mixed colors. **Pkt. 20c**

1521 ASTER, Carmine-Rose

New improved Aster of the California Giants type. Beautiful shade of carmine-rose. **Pkt. 20c**

1522 CLEOME, Helen Campbell

At last, a tall, vigorous, light-stemmed companion to Pink Queen. Has the same vigor, height and free-flowering characteristics, and in addition the pure white color and light green stems reproduce almost perfectly true. Beautiful landscape effects can be had by interplanting the two colors. **Pkt. 25c**

1523 CLEOME, Golden

An airy, filigree bloom of golden orange. Grows 3 to 4 feet tall. An unusual Cleome coloring and a strikingly decorative plant. **Pkt. 25c**

1524 CLARKIA, Royal Bouquet

An excellent mixture of this new type of Clarkia. Large flowers and erect, compact habit like Salmon Bouquet. Mixed. **Pkt. 20c**

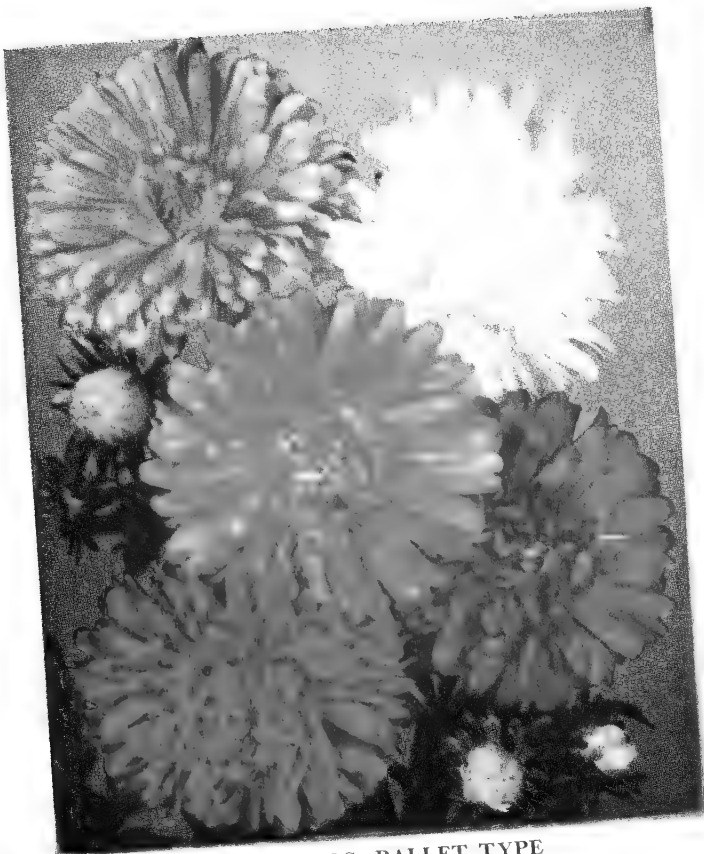
1525 LINARIA, Northern Lights

Clear bright colors with yellow lip characterize this new strain of the Baby Snapdragon. Bushy but erect plants 15 inches high, best grown from broadcast seed. Blooms very quickly from seed when spring sown, resulting in an early show of color. Very effective when broadcast among spring-flowering bulbs. **Pkt. 20c**

1526 LUPINS, Pixie Delight

A gay little dwarf annual Lupin in a mixture of pleasing shades of pink, rose, blue, lavender and white as well as bicolor combinations. Starts flowering freely a few weeks after the seed is sown outdoors. Useful for borders, bedding or pot plants. 8 inches tall. **Pkt. 20c**

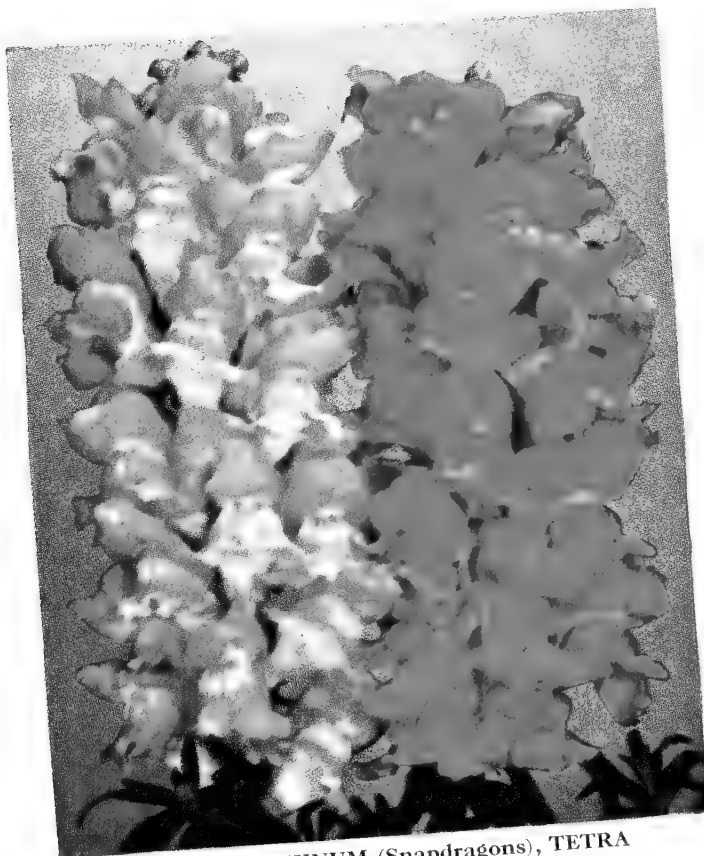
Beautiful
ANNUAL FLOWERS



1520 ASTERS, BALLET TYPE
A beautiful new type; wilt-resistant.
Pkt. 20c



486 COSMOS, DAZZLER
Pkt. 15c; 1/4oz. 35c



405 ANTIRRHINUM (Snapdragons), TETRA
The largest-flowered of all Snapdragons.
Pkt. 15c



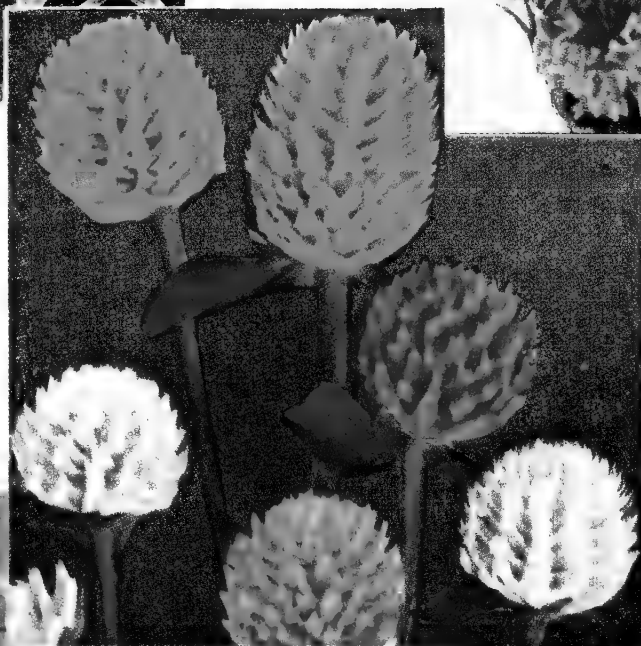
506 DIANTHUS HEDDEEWIGI, FL.-PL.
(Annual Pinks). Pkt. 10c; 1/4oz. 50c



**517 GAILLARDIA,
DOUBLE MIXED**
Pkt. 10c; 1/4oz. 50c



**474 CENTAUREA (Cornflower),
JUBILEE GEM.**
Pkt. 15c; 1/8oz. 25c.



**519 GLOBE
AMARANTH,
MIXED COLORS.**
Pkt. 10c



662 PORTULACA, SINGLE MIXED
Pkt. 10c; 1/8oz. 50c; 1/4oz. 90c; oz. \$3.00

to you. It is just as easy to grow as the more familiar single variety. Centaurea, Jubilee Gem, is a compact grower that furnishes the desirable blue tones. And if it's color you want, you can't find it any brighter than in the well-known Scarlet Sage.



670 SALVIA (Scarlet Sage), AMERICA
Pkt. 25c; 1/16oz. 60c

New Flowers and Specialties, continued

1527 MARIGOLD, Limestone

Beautiful chrysanthemum-type, incurved flowers of typical Mission Giant habit of growth, bloom size and season. Limestone is a soft lemon-yellow, completing the color range of this group so well begun with Goldsmith and Yellowstone. **Pkt. 20c**

1528 MARIGOLD, Eldorado

Dwarf Double French Marigold of a pleasing canary-yellow, tinted slightly deeper toward the center. Fine for borders and edging. The 1½-inch flowers, closely set on well-rounded, dwarf plants, maintain their form throughout a long blooming season. **Pkt. 20c**

1529 MARIGOLD, Aurora

New gaillardia-flowered type of dwarf Marigold. Deep golden yellow color; early blooming. Plants 12 to 14 inches tall. Good for borders and bedding. **Pkt. 20c**

1530 MARIGOLD, Little Giants

A fine mixture of dwarf African type Marigolds. Fine for borders and bedding. Mixed. **Pkt. 20c**

1531 MARIGOLD, Spanish Flag Mixed

A blend of only the modern, dwarf, free-flowering single Marigolds, including reds, yellows and bicolors. Ideal for border and rock garden. **Pkt. 20c**

1532 MARIGOLD, French Gold Laced

Rich oxblood or mahogany-carmine with picotee edge of pure golden yellow, giving a honeycomb effect. Compact, bushy plants covered with double, globular flowers on sturdy, 9-inch stems. An annual bedding Marigold sure to be popular. **Pkt. 20c**

1533 MORNING-GLORY, Darling

Brilliant rose-cerise with pure white throat making an attractive contrast. Large, 4-inch flowers. **Pkt. 20c**

1534 GERBERA (Transvaal Daisy)

A tender perennial, Gerbera is becoming very popular. This is a new strain that we believe to have the finest color range obtainable from seed. Long stems topped by graceful blooms in brilliant and unusual colors. **Pkt. (50 seeds) 50c**

1535 HOLLYHOCK, Triumph Supreme

A new double Hollyhock in a range of unusual colors, including combinations not to be found in existing strains. Full double flowers gracefully waved and fringed, showing well above the foliage. Early; rust-resistant to a high degree. **Pkt. 20c**

1536 SWEET PEA, Nugget

A new color in Sweet Peas—soft coral-rose with tints of gold. Duplexed flowers. Vigorous growth and large individual florets. **Pkt. 20c**

1537 SWEET PEA, Bo-Peep

An early dwarf Spencer Sweet Pea, salmon-rose in color. Very vigorous grower. **Pkt. 20c**

1538 PETUNIA, Tango

Deep salmon outside shading to scarlet-salmon near the throat. Flowers beautifully fringed. Plants strong growing, dwarf, very free flowering. **Pkt. 75c**

1539 PHLOX, Beltsville Beauty

A wide mixture of colors including many new shades, also pure paper-white, most of them with a dark eye. The majority are quite large-flowered and bear many stems of large umbels. To insure good germination, seed should be frozen before being planted. Perennial. **Pkt. 25c**

1540 VERBENA, Dwarf Mixed

A mixture of blue, pink and salmon. Grows about 6 inches in height. Very erect; good for borders. **Pkt. 20c**

1541 VERBENA, Roselight

Bright rose-pink with white eye giving a color effect similar to that of the ever-popular petunia, Rosy Morn. Profuse blooming and of uniform habit. This much-desired color blends well with the color scheme of most gardens. Bush type. **Pkt. 20c**

1542 HEUCHERA sanguinea splendens (Coralbells)

Deep crimson, varying to scarlet; flowers carried in graceful sprays. Delightful in rock gardens and borders and for cutting. **Pkt. 25c**

1543 DIANTHUS, New Blue

A perennial blue Sweet William. Bright lavender-blue flowers on 9-inch stems. Ideal for rock gardens and borders. **Pkt. 25c**

1544 DIANTHUS, Old Village Pinks

A very hardy perennial with a long blooming season. Compact in growth and rich in range of colors. Mixed colors. **Pkt. 25c**

1545 DIANTHUS, White Loveliness

Pure white; exquisitely fragrant. Plants hardy, 15 inches tall. **Pkt. 25c**

1546 ZINNIA, Peppermint Stick

A novelty striped Zinnia in a wide range of color, including red and white, red and yellow, pink and white, orange and yellow, purple and white, and many others. Plants somewhat taller than the Pumila type, bearing medium-sized flowers of the same type. One of the best cut-and-come-again Zinnias. An early strain; will bloom till frost if flowers are kept picked. **Pkt. 20c**

1547 California Native Wild Flowers, Centennial Blend

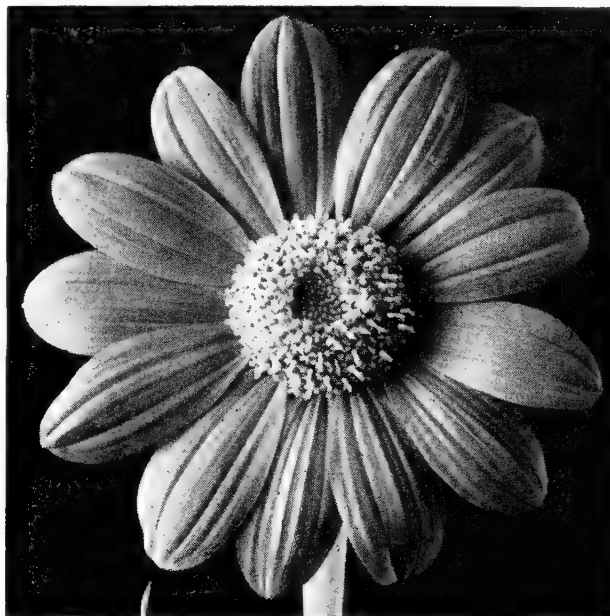
A special blend introduced at this time to celebrate California's centennial. We have selected those species that grow most easily under average conditions and with as wide a range of color and type as possible. Includes both annuals and perennials, varying in height from 1 to 3 feet. **Pkt. 20c**

1548 Polyanthus, Blackmore & Langdon Strain (Bunch Primrose)

A choice strain of many brilliant colors of good size and habit. A showy, free-flowering perennial, ideal for borders, rock gardens and wild gardens. Will thrive in full sun if in moist soil; otherwise they must have partial shade. Mixed colors. **Pkt. 35c**

1549 SALVIA splendens, Rose Flame

Rich brilliant coral-pink, blending well with other colors. Growth uniform and vigorous, 24 inches tall. Blooms early in July if sown in mid-March. **Pkt. 25c**



1501 TITHONIA, Torch. See page 24

McCullough's Annual Flower Seeds

The life of the true annual does not extend longer than one season. The plant grows from seed, produces flowers, ripens its seeds and perishes in the same year. Annuals have many advantages. The seeds are inexpensive and the flowers can be enjoyed by the home renter as well as the home owner. Because of their short period of growth, they can be used to fill gaps in the perennial border and to succeed plantings of spring-blooming bulbs, such as tulips, hyacinths, etc. Annuals have a delicate beauty all their own and no plants surpass them in brilliancy for summer display. They furnish material for a whole garden, as well as cut flowers for home decoration. A succession of bloom may be had by occasional sowing of many sorts, such as Alyssum, Candytuft, Eschscholtzia, Zinnias, etc. In the latitude of Cincinnati, Ohio, these sowings may be made as late as July 1 to 15. Another

method now being used with such annuals as Cornflowers, Gypsophila, Larkspur, Petunia, etc., is to plant the seeds in the autumn for early spring bloom.

NOTE: We send out no untested seed. When failure occurs, we invariably find that the seed has been planted too deep or the soil has been permitted to become excessively dry, or the reverse, while germination is taking place.

Seeds of annuals, unless otherwise noted, should be started indoors in a light, sifted soil with sand and humus or clean leaf-mold added. Water soil thoroughly, allow to drain, then sow seed thinly in rows. Cover with paper or glass to conserve moisture. Transplant outdoors when all danger of frost has passed. They may also be sown where they are to flower, thinning out the young plants later.

All varieties marked (*) are especially suitable for the rock garden.

Ageratum (Floss-Flower)

One of the best bedding plants, being literally a sheet of bloom from early summer till frost. Easily raised from seed started in a hotbed and in May transferred to the garden, 4 to 6 inches apart. Can also be sown outdoors in May.

*375 MIDGET BLUE. Very dwarf, growing 2 to 3 inches high, with delicate, fine foliage. Practically smothered with small, true Ageratum-blue flowers. Pkt. 15c; 1/8oz. 50c

*376 THE GOLDEN. Flowers are closely clustered, fluffy rich yellow. Pkt. 15c

377 BLUE PERFECTION. Large heads of deep blue flowers in abundance. Height 12 inches. Pkt. 10c; 1/8oz. 40c

*378 FAIRY PINK. A dwarf compact Ageratum of a delightful soft salmon-rose-pink color. Height 5 inches. Pkt. 15c

Alyssum

A fragrant edging plant with small, white flowers in great profusion throughout the summer and autumn. Useful for borders and window boxes.

*379 CARPET OF SNOW. Of creeping habit, forming a dense carpet of beautiful white flowers. Height 4 inches. Pkt. 10c; 1/4oz. 40c; oz. 75c

*380 TOM THUMB (Little Gem). A splendid sort for edges, borders or rock work. Height about 6 inches. A compact mass of bloom 12 to 15 inches across. Pkt. 10c; 1/4oz. 30c; oz. 85c

381 SWEET. Height about 8 to 10 inches but spreading. Pkt. 10c; oz. 60c

382 VIOLET QUEEN. Bright violet, lasting well in hot sun. Pkt. 15c; 1/8oz. 45c

SAXATILE COMPACTUM. See Perennials, page 43.

Amaranthus

Effective plants because of their brilliantly colored foliage. Flowers are interesting. Best in sunny positions in rather poor soil.

383 MOLTEN FIRE. Brilliant poinsettia-like tips. Pkt. 15c

384 TRICOLOR (Joseph's Coat). 2 1/2 ft. The inner foliage is of blackest bronze, tipped with green; the outer bright scarlet and gold. Pkt. 10c

Anchusa

385 BLUE BIRD. A dwarf compact type, 18 inches high, with indigo-blue flowers. Blooms freely during late spring and summer. Pkt. 15c; 1/4oz. 45c

ITALICA. See Perennials, page 43.

Gorgeous Snapdragons (Antirrhinum)

Snapdragons have been amazingly improved in size and color. They are hardy and should be sown early, as they germinate slowly. Unless very rich soil is provided and all plants are staked, the dwarf and semi-tall class will be most satisfactory in the garden. They are effective in beds of solid color and require full sun. Keep seed pods picked off. If intended for winter flowering, cut back in September.

386 VELVET GIANT. The large flowers have a pronounced velvety texture. Deep crimson illumined with undertone of orange-bronze. 2 1/2 feet tall, with 6 to 12 spikes to a plant. Pkt. 20c

Rust-Resistant Super Majestic Snapdragons

387 MIXED COLORS. Pkt. 15c; 1/8oz. 60c

Antirrhinum Rust-Resistant Maximum

These are approximately 3 feet high and the individual flowers are very large.

388 ALASKA (Snowflake). Pure white.

389 CAMPFIRE. Luminous scarlet.

390 CANARY BIRD. Canary-yellow.

391 COPPER KING. Copper-orange to gold.

392 RED CROSS. Crimson, with white tube.

393 INDIAN SUMMER. Coppery orange-scarlet.

394 SWING TIME. Rose-pink.

395 YELLOW GIANT. Deep yellow.

Any of the above Maximum varieties: Pkt. 15c; 1/8oz. 90c

396 MAXIMUM MIXED.

Pkt. 15c; 1/8oz. 90c

Rust-Resistant Snapdragon Majus Grandiflorum

Approximately 2 feet high.

397 MIXED COLORS. Pkt. 10c; 1/8oz. 60c

*398 MAGIC CARPET. A good range of colors, 4 to 6 inches high, covered with miniature flowers. Excellent for rock gardens, small beds and edgings. Pkt. 15c

Antirrhinum Rust-Resistant Nanum Grandiflorum

Approximately 1 to 1 1/2 feet high.

399 DU BARRY. Salmon-rose.

400 INDIAN GIRL. Beautiful old-gold.

401 GARNET. Rich velvety crimson.

402 WILDFIRE. Bright orange-scarlet.

Any of the above Nanum Grandiflorum varieties: Pkt. 15c; 1/8oz. 80c

403 NANUM GRANDIFLORUM MIXED. Pkt. 15c; 1/8oz. 50c

404 ANTIRRHINUM, UNIVERSITY OF CALIFORNIA MIXTURE. An excellent mixture of rust-resistant Antirrhinums similar to the Majus Grandiflorum.

Pkt. 10c; 1/8oz. 60c

405 TETRA (Rust-Resistant.) See page 25. Largest of all Snapdragons. Pkt. 15c

406 CHERRY ROSE (Rust-Resistant.) Brilliant cherry-rose. Pkt. 15c

407 AUTUMN SHADES. (Rust-Resistant.) An attractive blending of bright orange and buff. Pkt. 15c

Arctotis

(Blue-Eyed African Daisy)

410 GRANDIS. Forms much branched bushes 2 to 3 feet high. Flowers are large and showy, being pure white on the upper surface, the reverse of petals pale lilac-blue. Blooms early in July and continues until hard frost. Pkt. 10c; 1/4oz. 40c

411 ARCTOTIS HYBRIDS. Such lovely shades as pink, red, purple, violet, yellow and orange, all showing the characteristic blue center. Pkt. 15c

COLLECTION

2396 One pkt. each of Swing Time, Red Cross, Copper King, Canary Bird, Alaska. (Value 75c)

5 pkts. 60c

McCULLOUGH'S ASTERS New Types and Wilt-Resistant Strains

Asters are the glory of our gardens in August and September, just when good flowers for cutting and garden display are wanted. To succeed with Asters, sow the seed in flats in the house or hotbed in March. Transplant the seedlings 2 inches apart in boxes, and when they are large enough to handle, move to permanent beds in May. For late crops sow outdoors late April or early May. The richer the ground, the better your flowers will be, and water is very necessary.

Aster, Princess

Neat, 3 to 3½-inch flowers on strong stems with branching habit. Quite wilt-resistant. Deep quilled cushion centers make the flowers full even when completely open.

412 **FINEST MIXED.** Pkt. 15c

Early Giant Wilt-Resistant Asters

Finest large-flowered, heavy-stemmed, wilt-resistant Aster yet developed. Flowers are of the large Giants of California type, while the plants are less than 2 feet in height.

413 **EARLY GIANT MIXED.** All colors. Pkt. 15c

Aster, Golden Sheaf (Wilt-Resistant)

414. The deepest yellow Aster yet offered, and the only one that is wilt-resistant. The flowers are fully double, with an attractive crest-like center, of good substance and fine depth of petal.

Pkt. 15c

New Aster

Giant California Sunshine

We now offer delightful new colors as well as the mixture in the popular Aster Giant California Sunshine group. These plants grow 3 feet high and bear blossoms 5 and 6 inches across on long, stiff stems. The dual-tone color effects formed by the quilled disc and the encircling guard petals are lovely beyond description.

415 **GIANT CALIFORNIA SUNSHINE Mixed.** All colors. Pkt. 15c

California Giant Asters

A new variety of the Crego type, with the robust habit of growth and long stems of the Beauty type. The flowers are much larger and more substantial than the Improved Crego. They measure 5 to 6 inches in diameter and stand up well when shipped as cut flowers. Their immense size and beauty, as well as their long and sturdy stems, make them very attractive.

417 **WHITE**

418 **PEACH BLOSSOM**

419 **LIGHT BLUE**

420 **DEEP ROSE**

421 **DARK PURPLE**

Any of the above: Pkt. 15c; ½oz. 50c

422 **MIXED COLORS.** Pkt. 15c; ½oz. 50c

2422 **COLLECTION.** One pkt. each of the above 5 colors, 60c.

Heart of France Asters

424. Brilliant dark red flowers similar to the American Branching in type. Highly wilt-resistant. Blooms on strong stems in late August or September. Height 2 feet.

Pkt. 15c; ½oz. 50c

Wilt-Resistant Early Royal Asters

427 **AZURE-BLUE.**

428 **DEEP ROSE.**

429 **PEACH BLOSSOM.**

430 **PURPLE.**

431 **WHITE.**

432 **FINEST MIXED.**

Any of the above: Pkt. 10c; ½oz. 35c

Wilt-Resistant Crego Asters

433 **ORCHID.**

434 **CRIMSON.**

435 **PEACH BLOSSOM.**

436 **PINK.**

437 **PURPLE.**

438 **WHITE.**

439 **FINEST MIXED.**

Any of the above: Pkt. 15c; ½oz. 45c

BALSAM PEAR and APPLE (Momordica)

Tender annual climbers bearing ornamental fruits of various colors. They grow 10 to 12 feet high, have light green foliage and rather large leaves and are very graceful.

440 **BALSAM APPLE.** Like Balsam Pear, with smaller foliage and smaller fruits, very nearly round. Green striped when young, later becoming scarlet. Pkt. 10c

441 **BALSAM PEAR.** Fruit oblong, pointed and warted, first green afterward changing to bright red. When fully ripe, it bursts open exposing the seed. Largely used for putting in alcohol or whiskey, also as a poultice or for cuts, bruises and wounds. Pkt. 10c

BUSH BALSAM

These bush type Balsams are carried at the tips of the stems rather than on the side, making a show of color rather than of foliage. Height 8 to 10 inches.

442 **MIXED COLORS.** Pkt. 20c

BACHELOR'S BUTTON. See Centaurea.

BALSAM (Lady's Slipper)

An old-fashioned flower which bears flowers of various shades: white, pink, red, yellow, purple, etc., some of which are beautifully striped and spotted. Hardy annual.

443 **DOUBLE MIXED.** Pkt. 10c; ¼oz. 30c

BARTONIA

(Blazing Star or Gold Star)

444 **AUREA.** A free-blooming and showy hardy annual with large yellow flowers. The foliage is gray and thistle-like and is exceedingly brilliant in the sunshine. Thrives in a sunny situation, even in poor soil. Does not transplant well. Height 18 inches. Pkt. 10c; ¼oz. 25c

BEGONIA

Everblooming Bedding Varieties

The small, bright flowers are borne in great profusion from summer to autumn. Spring seedlings bloom in summer while summer seedlings make fine house plants for the winter.

445 **CHRISTMAS CHEER.** Everblooming. Enormous, rich bright cherry-red flowers, often 2 inches in diameter. Pkt. 35c

446 **CARMEN.** The original bronze-leaved Begonia. Bright rose-pink flowers. Pkt. 35c

447 **WHITE PEARL.** Clear glistening white. Pkt. 35c

448 **MIXED COLORS.** Pkt. 35c

BRACHYCOME

(Swan River Daisy)

449 **IBERIDIFOLIA.** One of the daintiest and most charming little annual flowers imaginable, easy to grow in any soil. The flowers are borne on graceful stems well above the delicate, finely laciniated foliage. They are ideal for low beds and borders, as the plants grow to a height of only 8 to 10 inches.

Mixed. Pkt. 10c; ½oz. 25c

CALENDULA (Pot Marigold)

Daisy-like flowers. Sow outdoors in spring, or earlier indoors and transplant. Grow under glass in winter. 2 ft.

450 **ORANGE KING.** Beautiful rich orange. Full double flowers, borne abundantly throughout the season. Pkt. 10c; oz. 60c

451 **DOUBLE ART SHADES.** Contains delicate apricots, beautiful picotees, orange shades, cream tones. Pkt. 10c; ½oz. 25c

452 **BALL'S ORANGE.** Bright orange flowers, very large and double, with long stems. A favorite on the cut-flower market. Pkt. 10c; ¼oz. 35c

453 **CAMPFIRE (Sensation).** Extremely large flowers, carried on long, stout stems. The color is a brilliant orange with a scarlet sheen and a full yellow center.

Pkt. 10c; ¼oz. 35c

454 **LEMON QUEEN.** Rich lemon-yellow. Pkt. 10c; oz. 75c

455 **MIXED.** Pkt. 10c; oz. 50c

GAY CALLIOPSIS

One of the best annuals for beds or borders, producing attractive and graceful flowers on long stems which are most effective for decoration. They commence blooming early and continue until early fall. Seeds are usually sown outdoors where they are to bloom but can be sown inside and transplanted.

456 **GOLD CREST.** Rich golden yellow with a reddish brown zone. Flowers are 2½ to 3 inches across and are semi-double. Pkt. 10c; ¼oz. 25c

457 **DWARF VARIETIES, Mixed.** Valuable for small mixed beds and borders. Pkt. 10c; ¼oz. 25c

458 **TALL MIXED.** A splendid mixture comprising many varieties and a great range of colors. Pkt. 10c; ¼oz. 25c

PERENNIAL COREOPSIS. See page 44.

CANTERBURY BELLS

Bring Spring to the Garden in September

Annual Canterbury Bells will flower in less than six months from seed, will grow 2½ feet tall, producing six to eight flowering spikes to the plant.

459 MIXED COLORS. Pkt. 15c

CANDYTUFT FOR MASS PLANTING

Showy branching plant, fine for edging, bedding, massing, rock gardens or cutting. For early blooms, sow seed inside in March, making successive sowings outdoors any time from May to July. They thrive in rich soil and should be watered freely.

460 GIANT HYACINTH-FLOWERED or IMPROVED EMPRESS. A wonderfully improved strain of the popular Empress Candytuft, forming much-branched plants about 18 inches high. Makes a very effective white bed or border and is invaluable for cutting.

Pkt. 10c; ¼oz. 25c; oz. 75c

Umbellata Type

Umbellata sorts grow about 1 foot high, with flowers in umbrellata form.

461 FINEST MIXED. Comprising all colors and shades.

Pkt. 10c; ¼oz. 25c; oz. 75c

PERENNIAL CANDYTUFT. See Iberis, page 45.

CARDINAL CLIMBER

462 Rapid grower with branching habit; cardinal-red flower clusters all summer. Height 15 to 25 feet. Pkt. 15c

CARNATION

463 ENFANT DE NICE MIXTURE. The plants are of robust, upright habit, with long, strong stalks bearing flowers 2½ to 3 inches in diameter. About 90 percent of the plants come double. Pkt. 25c

464 MARGUERITE. A very early sort which sometimes blooms in four months from sowing. Flowers are large, double, deeply fringed, very fragrant. Plants semi-dwarf. Finest mixed colors. Pkt. 25c

CELOSIA CRISTATA NANA (Cockscomb)

A free bloomer growing best in rather light not too rich soil. Sow seeds indoors in early spring and plant outdoors in May, or sow seed outdoors in May.

465 GLASGOW PRIZE. Dwarf crimson. Pkt. 10c

CELOSIA CHILDSI (Chinese Woolflower)

466 MIXTURE. A distinct type with large, roundish head and drooping spikelets of flowers which look like an immense ball of wool. All colors. Very showy. Pkt. 15c

CELOSIA PLUMOSA, Heatherdell

An early-flowering, dwarf, compact Celosia forming bushy plants 12 to 15 inches high.

467 EXHIBITION MIXTURE. Many fine new shades. Pkt. 15c

CENTAUREA

Sow outdoors in April and thin plants to stand 10 inches apart, or sow seed from September to November for early bloom the following spring.

Double-Flowering Varieties 2 ft.

468 BLUE BOY. Blue.

469 BLACK BOY. Blackish maroon.

470 PINKIE. Deep pink.

471 RED BOY. Deep red.

472 SNOW MAN. White.

Any of the above: Pkt. 10c; ¼oz. 30c; oz. 90c

473 DOUBLE MIXED. Pkt. 10c; ¼oz. 30c; oz. 80c

474 JUBILEE GEM. A dwarf variety of Cornflower making a compact plant literally covered with flowers. It has distinct foliage forming a tufted mass of vivid green, contrasting well with the dark but vivid double blue flowers. Height about 12 inches. Pkt. 15c; ½oz. 25c

475 POLAR GEM. Dwarf double, white. Height 1 foot; same habit as Jubilee Gem. Pkt. 15c

476 DWARF ROSE GEM. A pink Jubilee Gem with the same dwarf habit. Double flowers in a charming shade of carmine-rose; very free blooming. Height 12 inches. Pkt. 15c

Imperialis (Royal Sweet Sultan)

477 FINEST MIXED. A wonderful annual for cutting. Long-stemmed, fringed and fragrant. May until frost. Height 2 to 3 feet. Pkt. 10c; ¼oz. 40c

White-Leaved (Dusty Miller)

470 CANDIDISSIMA. Thick, silvery white leaves; sow early. Height 10 inches. Pkt. 15c; ½oz. 50c

CHRYSANTHEMUM

479 RAINBOW MIXTURE. Pkt. 15c

CLARKIA

This pretty and easily grown annual has been much improved in recent years. Plants do well in either sun or shade, growing 2 to 2½ feet high, with leafy racemes of double flowers, which all open in water when cut.

480 ELEGANS DOUBLE MIXED. Pkt. 15c; ¼oz. 50c

481 SALMON BOUQUET. Retains erect habit throughout its growth. Ideal for the open border or pot culture. Pkt. 20c

482 LADY SATIN ROSE. Double flowers in an exquisite shade of deep satin-rose. Height 2 feet. Pkt. 20c

CLADANTHUS ARABICUS

483 PALM SPRINGS DAISY. Golden yellow, daisy-like flower of easy culture, requiring a minimum amount of moisture. Its habit of growth is especially unique. Each flower multiplies itself by producing three or four branches terminated by a flower, which in turn multiply, etc. Very free blooming. Height 24 inches. Pkt. 15c

CLEOME (Spider-Plant)

484 PINK QUEEN. Huge trusses of bright salmon-pink flowers. About 4 feet tall. Easily grown. Pkt. 15c

COLEUS (Flame Nettle)

Fine colored, tender perennial foliage plant for house or garden. Sow indoors in March.

485 FINEST MIXED COLORS. Pkt. 35c

CYPRESS VINE

A beautiful, rapid-growing climber with delicately cut, vivid green foliage and star-like flowers, which make a most effective contrast with the leaves. About 15 feet high.

499 MIXED. Scarlet and white. Pkt. 15c

COLUMBINE. See Aquilegia, page 43.

COSMOS FOR EARLY AUTUMN COLOR

Graceful autumn flowers, fine for cutting and extremely showy in the garden. They do best in rather poor soil.

Extra Early Sensation

The flowers of this strain are mammoth in size, 4 to 5 inches in diameter, early blooming in ten weeks from the time of seeding.

486 DAZZLER. Crimson.

Pkt. 15c; ¼oz. 35c

487 PINKIE. Clear rose-pink.

Pkt. 15c; ¼oz. 35c

488 PURITY. Pure white, yellow center.

Pkt. 15c; ¼oz. 35c

489 MIXED COLORS. Pkt. 15c; ¼oz. 35c

490 RADIANCE. Striking deep rose and rich crimson. Pkt. 15c

Tall Late Mammoth Flowering

491 GIANT MIXED. Comprises all shades. Pkt. 10c; ¼oz. 30c

Early Double Sensation Cosmos

These new Double Cosmos are extra early flowering and have the mammoth Sensation type of flower, averaging 4 to 5 inches in diameter. The plants grow about 38 inches tall, with 15-inch stems for cutting. Each plant is a heavy producer; thrifty foliage; continues blooming over a very long period.

492 PINK LADY. Pkt. 20c

493 WHITE CLOUD. A beautiful soft white, especially recommended for florists, producing approximately 60 percent double which is unusually good for Cosmos. Pkt. 20c

494 DOUBLE SENSATION, MIXED COLORS. Pkt. 20c

495 EARLY ORANGE FLARE. Orange flowers. The stems are long and wiry, well adapted for cutting. Height 2½ feet. Pkt. 10c; ¼oz. 35c

496 YELLOW FLARE. Bright clear yellow. About 2½ inches across, on 3-foot stems. Pkt. 10c; ¼oz. 35c

CYNOGLOSSUM

(Chinese Forget-Me-Not)

497 FIRMAMENT. As easy to grow as any hardy annual. Compact and free flowering. Flowers resemble forget-me-nots and are bright indigo-blue in color. Height 1 to 1½ feet. Pkt. 15c

498 PINK. Growth and flowering habit like Firmament. Most effective when planted solid in beds, or as a background for white alyssum. Pkt. 20c

Petunias

EVERYONE'S FAVORITE

There is nothing fussy or pretentious about Petunias. They are among the most commonly grown of all annuals, but they come in such a very wide range of form and color that the home gardener is afforded many opportunities to use them. They are very popular for window boxes, beds and borders. See page 38 for our full list of Petunias.



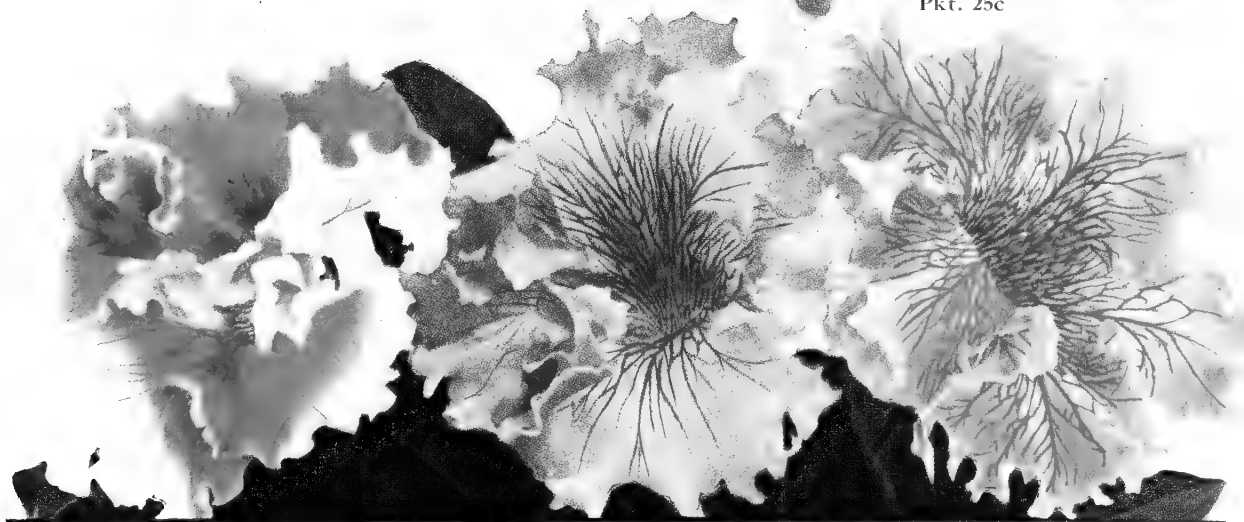
615 SNOWSTORM. Pkt. 35c



622 MARTHA WASHINGTON. Pkt. 25c



617 ELK'S PRIDE.
Pkt. 25c



620 DWARF GIANTS. Pkt. 35c



682 SCABIOSA (Pincushion Flower)
GIANT HYBRIDS
Pkt. 10c; 1/4oz. 30c; oz. 90c

As a quick introduction to flower growing, nothing is better than annuals. They are easy to raise from seed, and best of all they give fast results. The child who expects flowers the next day after sowing the seed and the summer cottager who needs bloom for only a short season are alike grateful for annuals.

Annuals

GIVE YOU CUT FLOWERS ALL SUMMER



661 SHIRLEY POPPIES
Pkt. 10c; 1/2oz. 35c; oz. 65c

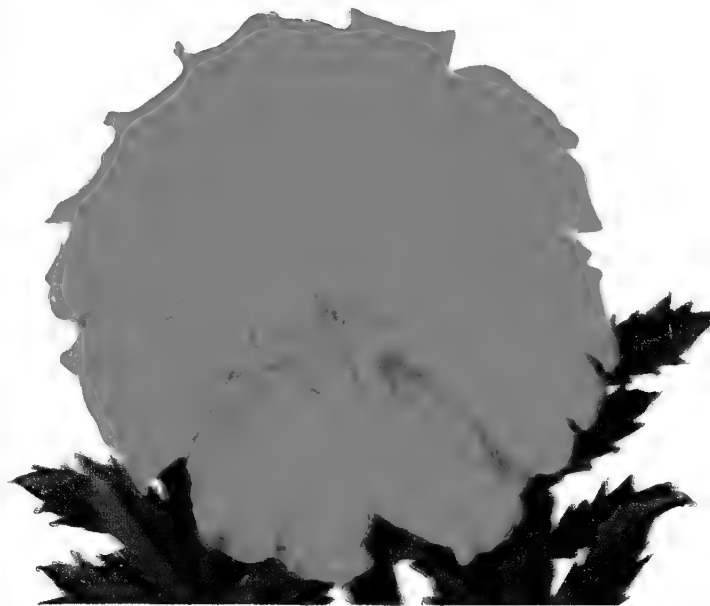


1518 LARKSPUR, REGAL MIXED
Pkt. 25c

Annuals may be grown in formal or informal gardens, in rock gardens, among shrubs and perennials or in window boxes. They offer unlimited opportunity for immediate landscape effects, in addition to providing quantities of flowers for cutting. The fact that their life is short permits growing them in variety without a strain on the pocketbook.



548 MARIGOLD, MAMMOTH MUM. Pkt. 15c



574 MARIGOLD, RED HEAD. Pkt. 15c



601
NICOTIANA
SENSATION
MIXED
Pkt. 15c



652 ANNUAL PHILOX
Pkt. 15c



1501
TITHONIA
TORCH
A new prize-
winner thriving
in hot weather
Pkt. 25c

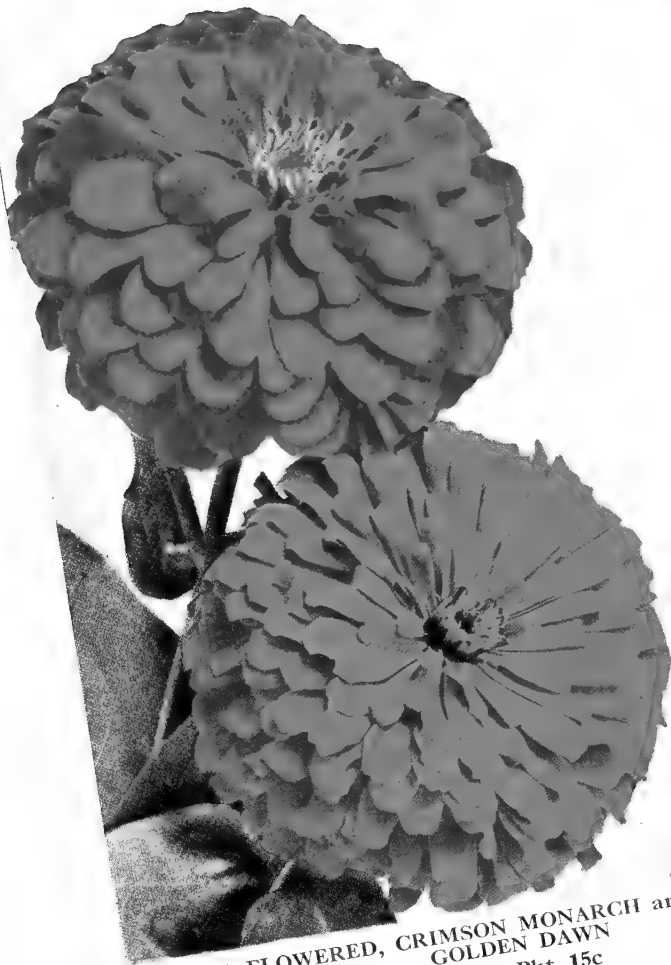


715 VERBENA, BEAUTY OF OXFORD. Pkt. 15c



590 NASTURTIUMS, GLEAM HYBRIDS
Pkt. 15c; oz. 35c

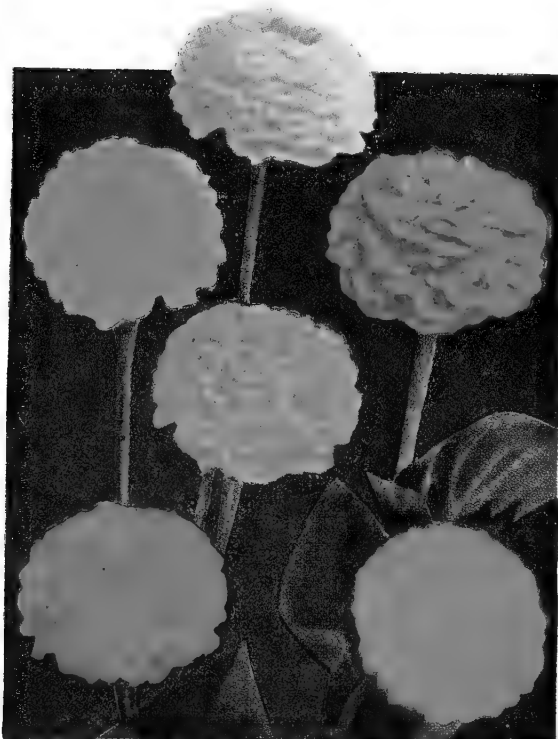
ZINNIAS—the old-fashioned favorite



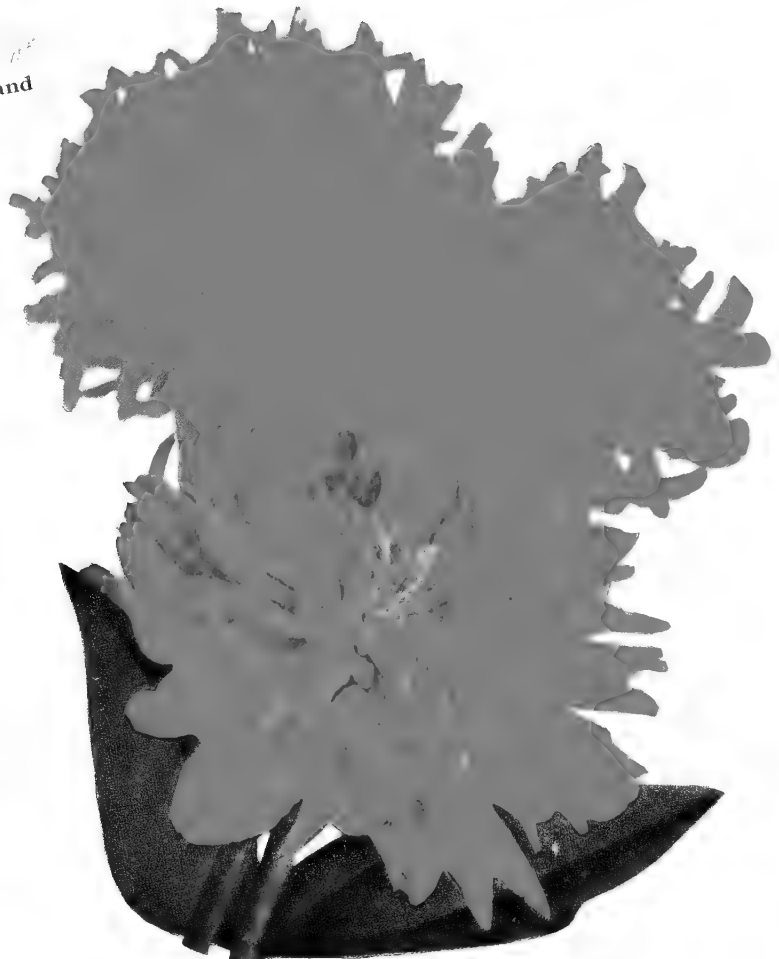
DAHLIA-FLOWERED, CRIMSON MONARCH and
GOLDEN DAWN
Each, Pkt. 15c



781 MEXICANA HYBRIDS
Pkt. 10c; 1/8oz. 35c



770 LILLIPUT, PASTEL MIXTURE
Pkt. 15c; 1/8oz. 25c



778 FANTASY MIXED
Pkt. 15c; 1/8oz. 35c; 1/4oz. 60c

DIDISCUS (Blue Lace Flower)

- 507 COERULEUS.** Superb for cut flowers. The long stems terminate in flat clusters of delicate blue flowers not unlike Queen Anne's Lace. Pkt. 10c; 1/8oz. 25c

DIMORPHOTHECA

(African Golden Daisy)

2 to 3 inches across. Sow seed broadcast in a sunny situation.

- 508 AURANTIACA.** Golden orange, with dark center. Pkt. 10c; 1/8oz. 35c

- 509 MIXED COLORS.** Mixture of white, yellow, salmon and orange. Pkt. 10c

GROW DAHLIAS FROM SEED

While Dahlias are usually grown from roots and cuttings, fine flowers can be produced in one season from seed if it is sown early indoors and the plants set out when the ground is warm.

- 500 DOUBLE MIXED.** Special strain of large-flowered Dahlias. Pkt. 40c

- 501 UNWIN'S DWARF HYBRIDS.** This is a beautiful strain bearing semi-double flowers with an excellent range of color, including pink, lavender, red, orange, yellow and maroon. From seed sown in the spring, plants begin flowering in the summer and improve until killed by frost. They grow 2 to 3 feet tall and bloom freely. Tubers are produced which can be saved for the next year. They make good pot plants when pinched back. Pkt. 25c

DIANTHUS (Annual Garden Pinks)

Every garden should include some Pinks because they are so easily grown and make such a wonderful display with their bright colored flowers. The plants are covered with sweet-scented bloom all summer. Grows about 1 foot high.

- 502 FIREBALL.** An extra double, brilliant dark red, old-fashioned, fragrant Pink. Seed sown in spring will bloom quickly and continue until frost. Pkt. 15c

- 503 GAYETY.** Large, single, fringed flowers in a wide range of lovely colors. Pkt. 15c

- 504 SWEET WIVELSFIELD.** This remarkable hybrid is quite distinct in flower and height of growth from the annual sweet william. It has a great variety of color and a very long season of bloom. Pkt. 10c

- 505 HEDDEWIGI (Single Pink).** A splendid mixture of single flowers of bright shades, brilliantly marked. Very free flowering. Pkt. 10c; 1/4oz. 50c

- 506 HEDDEWIGI, FL-PL. (Double Pink).** Very double, with deep fringed petals. Colors vary from white to rose, lilac, carmine, crimson, scarlet, purple, brown and almost black, spotted and striped. Pkt. 10c; 1/4oz. 50c

PERENNIAL DIANTHUS. See page 45.

ESCHSCHOLTZIA (California Poppy)

Easily grown sown where they are to grow.

- 510 SPREADING VARIETIES.** Single mixed. Pkt. 10c; 1/4oz. 35c

- 511 ERECT VARIETIES.** Single mixed. Pkt. 10c; 1/4oz. 35c

- 512 EUPHORBIA, Variegata** (Snow-on-the Mountain). Elegant, bushy plants, with broad green leaves, veined and margined with white. Attractive foliage. Height 2 feet. Pkt. 15c; 1/4oz. 45c

- 513 FEVERFEW Mixed** (Matricaria). Hardy annual; free flowering. For bedding or pot culture. Showy double white and yellow flowers. Height 18 inches. Pkt. 15c; 1/8oz. 45c

FOUR O'CLOCK (Marvel of Peru)

Old-fashioned flowers borne on erect, bushy plants 2 to 3 feet high. Flowers are large and tube-shaped; they open in the afternoon, remain open all night and close again in the morning. Hardy annual.

- 514 MIXED.** Comprises all shades. Pkt. 10c; oz. 35c

- 515 PETTICOAT.** This name is a perfect description of this novel Marvel of Peru. The sepals of each single flower are brightly colored to match the petals, giving a charming flower-within-a-flower effect. Otherwise, plants are like other Four o'Clocks. An origination of Mr. S. Percy Lancaster of Calcutta. Mixed colors only. Pkt. 15c

FORGET-ME-NOT. See *Myosotis*, pages 37 and 45.

FOXGLOVE. See *Digitalis*, page 45.

GAILLARDIA (Blanket-Flower)

One of the most profuse-blooming annuals in the flower garden. Excellent for cutting as well as for beds and borders. Blooms continually from early summer until frost. Grows best in full sunlight. Height 12 to 15 inches.

- 516 INDIAN CHIEF.** Single; brilliant bronzy red. Pkt. 10c; 1/4oz. 50c

- 517 DOUBLE MIXED.** Pkt. 10c; 1/4oz. 50c

- 518 SINGLE MIXED.** Pkt. 10c; 1/4oz. 50c

PERENNIAL GAILLARDIA. See page 43.

GLOBE AMARANTH (*Gomphrena*). An everlasting with beautiful flowers resembling clover-heads. They retain their color and are lovely in winter bouquets.

- 519 Mixed Colors.** Pkt. 10c

GODETIA (*Satin-Flower*). Attractive, hardy annuals deserving more extensive cultivation, especially in the cooler parts of the country. The plants bloom profusely and bear showy flowers not unlike an azalea, of satiny texture, in many rich and varied colors. They do best in a rather poor soil. Height 1 foot.

- 520 Dwarf Single Exquisite Mixed.** Pkt. 10c

SEEDS OF CURIOUS AND ORNAMENTAL GOURDS. Interesting in the Garden—Decorative in the House. Annual climbers suitable for sowing around arbors, trellises and fences. Large-fruited Gourds are used as dippers, bird houses, etc., and the small-fruited varieties are enormously popular for table decorations. The seeds are usually sown in the open ground in May. When very large fruits are desired, only two or three should be left on each plant. The branches should then be cut a few leaves beyond the last fruit. Do not let vines suffer for lack of water.

- 521 Small-Fruited Gourds, Mixed.** Pkt. 10c; oz. 50c

- 522 Large-Fruited Gourds, Mixed.** Pkt. 10c; oz. 50c

GYPSOPHILA (Baby's-Breath)

Quick-growing, producing great numbers of small flowers in loose, graceful sprays. Blooms quickly from seed. Liberal sowings should be made every three weeks from April to July to cut continuously. For early spring flowers sow the previous autumn.

- 523 ELEGANS ALBA** (New York Market). A grand improvement. Flowers large, pure white. Pkt. 10c; 1/2oz. 35c; oz. 60c

- 524 ELEGANS, DELICATE PINK.** Pretty blush-pink form of the above and equally valuable for cutting. Pkt. 10c; 1/2oz. 40c; oz. 70c

PERENNIAL GYPSOPHILA. See page 45.

HELICHRYSUM (Strawflower). For Winter Bouquets. Easy culture; one of our best everlasting flowers. Height 2 feet.

- 525 Double Mixed.** Pkt. 10c; 1/4oz. 50c

- 526 HELIOTROPE, Large-Flowered Hybrids.** A mammoth-flowering variety having enormous quantities of flowers and trusses sometimes measuring 10 to 12 inches across. Very fragrant. Colors vary from pure white through the various shades of blue and purple to indigo. Pkt. 15c

- 527 HUNNEMANNIA, Sunlite** (Santa Barbara Poppy; Yellow Tulip Poppy; Bush *Eschscholtzia*). A double-flowered Poppy that is different. Its extra band of petals is produced on the outside rather than the inside of the tulip-shaped flowers, giving the impression of being open even after the blossoms have closed for the night. Flowers bright canary-yellow; foliage light gray-green. Likes a sunny position in well-drained soil; flowers freely in late summer. Height 2 feet. Pkt. 10c

HYACINTH BEAN (*Dolichos Lablab*). A beautiful tender annual bearing large clusters of purple and white flowers, which are followed by ornamental purple seed pods. Height 15 to 20 feet.

- 528 Mixed Colors.** Pkt. 10c

***529 ICE-PLANT** (*Mesembryanthemum*). Valuable for hanging baskets, rock work, vases and window boxes. A curious-looking plant with leaves and stems appearing to be covered with ice crystals. A tender trailing annual growing about 6 inches high; the vines will extend 2 feet. Pkt. 10c

530 KOCHIA, Childsi (Mexican Fire Bush). A quick-growing foliage or hedge plant of symmetrical, globe shape about 3 feet high. The finely cut, clear green foliage is cypress-like in appearance. Early in the fall it is covered with innumerable little flowers that cause the plant to take on a reddish tinge. Seed can be started early indoors or sown in open border and transplanted or thinned out. Pkt. 10c; oz. 50c

LANTANA. Start seed indoors early.

- 531 Dwarf Bedding Hybrids.** Fine for bedding and pot culture. Will bloom freely all summer. Pkt. 15c; 1/4oz. 65c

LINUM OR PERENNIAL FLAX. See page 45.

LINARIA (Baby Snapdragons). Bright-colored, snapdragon-like flowers. The very compact plants are not more than 8 inches high and bear flowers of many distinct colors such as rose, yellow, pink, lavender, carmine, red, violet, white and salmon. Excellent for bedding or for pots. Will do better when sown in boxes and planted out.

- 544 Fairy Bouquet.** All colors mixed. Pkt. 15c; 1/8oz. 40c

LARKSPUR (Annual Delphinium)

Tall, showy plants that bloom freely during the summer months. They are very gay and especially useful for massed bedding and cutting. Blooms quickly from seed.

Giant Imperial Larkspur

A new type of annual Larkspur, developed in California. Ideal for cut flowers, as the stems, 3 to 4 feet long, branch from the base of the plant.

532 BLUE BELL. Medium blue, deeper than sky-blue, yet much lighter than lilac.

533 BLUE SPIRE. Intense deep Oxford-blue.

534 BRILLIANT ROSE. Salmon-rose suffused carmine.

535 CARMINE KING IMPROVED. Deep carmine-rose.

536 EXQUISITE PINK IMPROVED. Soft pink shaded salmon.

537 GLORIA IMPROVED. A rich tone of deep rose with no trace of carmine.

538 LILAC KING. Clear lilac.

539 LOS ANGELES IMPROVED. Brilliant rose on salmon.

540 ROSALIND. Rose suffused salmon.

541 SWEET LAVENDER. Rich lavender.

542 WHITE KING. Pure white. Early

Any of above: Pkt. 15c; 1/4 oz. 50c; oz. \$1.50

543 IMPERIAL MIXTURE. Mixture of above named varieties.

Pkt. 15c; 1/4 oz. 50c; oz. \$1.50

PERENNIAL LARKSPUR. See Delphinium page 44.

2543 One pkt. each of Blue Spire, Carmine King, Sweet Lavender, Exquisite Pink, and White King.
5 pkts. 60c

545 LOBELIA, Crystal Palace Com-
pacta. Rich deep blue; dark foliage.
Height 4 to 6 inches. Pkt. 15c; 1/8 oz. 60c

546 LOVE APPLE, Scarlet. The annual Love Apples make delightfully showy plants for the flower garden, full of brightly colored fruits for several months. The fruits, or sprays of them, may also be dried for winter bouquets. Cultural requirements are like those of the annual aster. All parts of the plant are smooth. Pkt. 20c

LUPINS. A new and greatly improved strain of annual Lupins growing 3 to 4 feet high.

547 Hartwegii, Giant King. Mixed colors. Pkt. 15c

PERENNIAL LUPINS. See page 45.

MOONFLOWERS

These beautiful climbers grow rapidly and will reach a height of 20 to 30 feet. For best results, start seeds indoors and set plants out when weather has become warm. Soaking the seed in warm water for twenty-four hours is beneficial.

579 SKY BLUE. Large, sky-blue flowers. Blooms profusely. Blooms late September and October. Pkt. 10c

580 GIANT WHITE. White flowers, opening in the evening and remaining open during cloudy days. Pkt. 10c

MARIGOLDS FOR COLOR In Late Summer and Autumn Giant-Flowered African Marigolds

548 MAMMOTH MUM. A chrysanthemum-flowered Marigold blooming in 2 1/2 months from seed. Flowers 3 1/2 inches and more across and 2 inches deep, sulphur-yellow, borne profusely on upright plants. Height 30 inches. Pkt. 15c

549 REAL GOLD. Largest of all carnation Marigolds, with giant exhibition blooms 4 1/2 inches and more across; very deep, very double, golden orange illumined with yellow. Plants grow 20 to 25 inches tall. Ideal for bedding. Pkt. 15c

550 ORIOLE. Large carnation-flowered Marigolds. Golden yellow, 3 1/2 to 4 inches across. Plants 2 1/2 feet high. Odorless. Pkt. 15c

551 GUINEA GOLD. Pyramidal habit, growing 2 to 2 1/2 feet high and producing 30 to 40 flowers, 2 to 2 1/2 inches across, of a brilliant shade of orange flushed with gold. Semi-double. Pkt. 10c; 1/8 oz. 30c

552 YELLOW SUPREME. Double, creamy lemon-yellow, a little larger than those of Guinea Gold. Plants 2 to 3 feet tall, without the usual odor, and free blooming. Pkt. 10c; 1/8 oz. 35c

553 VICTORY. A carnation-flowered Marigold of a charming light golden or yellowish orange color. Flowers are 3 to 3 1/2 inches across stems up to 18 inches in length. 2 feet tall. Pkt. 15c

554 BURPEE'S GOLD. Odorless foliage; deep orange flowers. Pkt. 10c; 1/8 oz. 35c

555 GOLDEN BEDDER. This is a very early, dwarf African variety with chrysanthemum-like flowers of rich golden orange color. Ideal for beds or borders. The whole plant can be cut as a bouquet. Height 15 inches. Pkt. 15c

556 ORANGE ALL-DOUBLE. An excellent strain producing flowers 100 per cent double. Blooms are well rounded and of a rich orange color. Pkt. 15c; 1/8 oz. 85c

557 LEMON ALL-DOUBLE. Same habit as the above variety but the flowers are clear lemon-yellow. Pkt. 15c; 1/8 oz. 85c

558 AFRICAN DOUBLE MIXED. Comprises various shades. Adapted for large beds or mixed borders. Pkt. 10c; 1/8 oz. 35c

Giant-Flowered Marigolds

559 SUNSET GIANTS. 5 to 6 inches in diameter. Free flowering and lacking the usual odor. Colors, ranging from deep orange to light lemon-yellow. Height 3 1/2 to 4 feet. Pkt. 15c; 1/8 oz. 40c

560 ORANGE SUNSET. Produces very large, loosely formed, full-centered flowers of a deep, rich, lively orange. Size of flower and character of growth same as Sunset Giants. Pkt. 15c; 1/8 oz. 40c

561 LEMON TRUMPET. 20 inches tall. Pure lemon-yellow. Flowers average 2 1/2 to 3 inches in diameter. Pkt. 15c

Mission Giants

Very early, coming into bloom fully two weeks ahead of the ordinary African types. Blooms 4 inches in diameter, almost a perfect ball.

562 MISSION GIANT, YELLOWSTONE. A bright rich clear yellow. Pkt. 15c

563 MISSION GIANT, GOLDSMITH. Rich golden orange. Pkt. 15c

564 MISSION GIANT MIXED. Colors include deep, medium and golden orange planted as well as bright lemon. Pkt. 15c

Dwarf Double French Varieties

This class of Marigolds will form dense bushes not over 12 inches high. Unequaled for borders or in beds.

565 GOLDEN HARMONY. Scabiosa-flowered type of solid golden yellow.

566 HARMONY. Scabiosa-like in formation, with tubular, deep orange center petals flanked by broad, velvety, dark maroon-brown guard petals. Will bloom very early.

567 ROYAL SCOT ALL-DOUBLE. A new strain of dwarf striped Marigold. Color is rich mahogany and gold in uniform stripes. Absolutely double.

568 SPRY. Dwarf and compact, 9 inches high and spreading 15 inches. Suited for borders, edging and pots. Flowers 1 1/2 inches across, double, with a bright clear yellow crested center surrounded by several rows of mahogany-red guard petals.

569 SCARLET GLOW. Scarlet turning to tangerine.

Any of the above: Pkt. 10c; 1/4 oz. 45c

570 DWARF DOUBLE FRENCH MIXED. All shades; very double. Pkt. 10c; 1/4 oz. 45c

Single French Marigolds

***571 LEGION OF HONOR (Little Brownie).** Compact bushes 9 inches high, flowering early, continuing until frost. Golden yellow, marked with a large spot of velvety crimson at the base. Pkt. 10c; 1/4 oz. 25c

***572 FLASH.** Earliest of all Marigolds. Colors range from vivid red through bronze and tangerine. Single flowers 1 3/4 inches and more across. Plants 18 inches tall. Pkt. 15c; 1/8 oz. 35c

***573 NAUGHTY MARIETTA.** Single, dwarf French Marigold 2 to 2 1/2 inches in diameter. In full bloom the plants average 12 inches tall and 16 inches across, completely covered with bright golden yellow flowers attractively marked with mahogany at the base of the petals. Very showy. Pkt. 15c; 1/8 oz. 50c

***574 RED HEAD.** Single flowers 2 inches across, opening rich mahogany and changing with sunlight to auburn, and later to shades of bronze and gold. Plants vigorous, forming a compact row 15 inches high and 20 inches across. Pkt. 15c

Marigold, Dwarf Gigantea

575 POT O'GOLD. Dwarf and compact. 12 to 15 inches in height. Blooms are 4 to 4 1/2 inches in diameter and the color a most penetrating shade of bright deep golden orange. Early. Pkt. 15c

***576 BUTTERBALL.** Clear yellow. Very dwarf; early and continuous flowering. Pkt. 15c

***577 SUNKIST.** Orange. Dwarf, compact, very early, long blooming. Pkt. 15c

MIGNONETTE (Reseda). Its sweet, delicate fragrance makes this a favorite annual in every garden. Sow in May in the borders or any sunny spot where plants are to remain.

578 Large-Flowering Sorts. Special mixture of many shades. Pkt. 10c; 1/4 oz. 40c

MORNING-GLORIES

The well-known and popular hardy annual climbers which produce large trumpet-like flowers of many brilliant colors. Seed is sown where they are to bloom, thinning as may be desired. Height 10 to 15 feet.

581 HEAVENLY BLUE. Immense flowers of bright sky-blue. Pkt. 10c; 1/4oz. 30c

582 SCARLETT O'HARA. Dark wine-red. Early blooming; attractive foliage. Pkt. 10c; 1/4oz. 50c

583 PEARLY GATES. White with creamy shading deep down in the throat. They average 4 1/2 inches across. Pkt. 10c; 1/4oz. 50c

584 RED, WHITE and BLUE MIXTURE. A mixture of the above three named varieties. Pkt. 10c; 1/4oz. 45c

585 BLUE STAR. All-America Winner, 1949. Sky-blue shade, with deeper colored midrib forming an attractive star. Pkt. 15c

MYOSOTIS

(Forget-Me-Not)

A biennial, best treated as an annual, as it will bloom the first year from seed. For early spring flowers, sow seed in August. Protect the plants or winter them over in a coldframe like pansies; or seed may be sown in a hotbed or coldframe in the spring, and they will commence blooming in July. A cool, half-shady place is suitable.

586 ALPESTRIS, INDIGO COMPACTA. Very early, bright blue. Compact habit. Pkt. 15c

587 ALPESTRIS ROSEA. Deep rose-colored Forget-Me-Not. Thrives in a cool, half-shady place. Pkt. 15c

DOUBLE NASTURTIUMS

Nasturtiums will grow well on soils incapable of supporting many other plants and are most useful on dry, sandy or gravelly banks. In very dry seasons the tall sorts have a tendency not to run on poor soil, and if a trellis is to be covered quickly the plants should be encouraged by watering in the early stages of growth. In wet seasons the dwarfs are likely to run and to produce more leaves than flowers; they should therefore be sown on as poor a soil as possible.

Double Sweet-Scented

588 GOLDEN GLEAM. Golden yellow. Pkt. 15c; oz. 35c

589 SCARLET GLEAM. Fiery scarlet. Pkt. 15c; oz. 35c

590 GLEAM HYBRIDS. All colors. Pkt. 15c; oz. 35c

Dwarf Double Gem Varieties

591 GOLDEN GLOBE. Golden yellow flowers; very compact. Pkt. 15c; oz. 45c

592 SCARLET GLOBE. Fiery scarlet. Pkt. 15c; oz. 45c

593 DWARF DOUBLE GEM MIXTURE. Pkt. 15c; oz. 45c

Single Dwarf Nasturtiums

594 DWARF MIXED. Height 1 foot. All varieties and shades. Pkt. 10c; oz. 30c; 1/4lb. \$1.00

Single Tall Nasturtiums

595 TALL MIXED. All varieties and shades. Pkt. 10c; oz. 30c; 1/4lb. \$1.00

596 NEMOPHILA, Insignis (California Bluebell) (Baby Blue Eyes). Splendid trailing annual, 6 inches high. Fine for edging borders or rock gardens. Cup-shaped, sky-blue flowers from late spring until frost. Pkt. 10c; 1/4oz. 35c

NICOTIANA

One of the easiest annuals to raise and one of the most effective. In shape the flowers are not unlike a petunia, but with a longer tube. They open toward evening and emit a powerful perfume.

597 CRIMSON BEDDER. Rich deep carmine. Plants are of dwarf, pyramidal habit not over 15 to 18 inches in height. Pkt. 10c

598 AFFINIS. Large, pure white, sweet-scented, star-shaped flowers 3 inches across blooming continually. Height 2 to 3 feet. Pkt. 10c; 1/4oz. 35c

599 AFFINIS HYBRIDS. Splendid mixture of blue, red and rose shades. Pkt. 10c; 1/4oz. 35c

600 DAYLIGHT. White blooms remaining fully open during the most brilliant sunshine. The plants are of bushy habit, reaching a height of 1 1/2 to 2 feet and about the same across, throwing an abundance of pure white blooms. Pkt. 15c

601 SENSATION MIXED. Approximately 1 1/2 to 2 feet in height, of bushy habit and remaining open all day, even in brilliant sunshine. Colors pure white to deep crimson through many shades of cream, purple and pink. Pkt. 15c

602 NIGELLA, Miss Jekyll (Love-in-a-Mist). An abundance of long-stemmed flowers of a clear corn-flower-blue, prettily set in slender, elegant foliage. Height 18 inches. Pkt. 10c

GIANT PANSIES

This popular annual is so well known that it needs little description. Pansies are easily grown and bloom profusely for many months. Sow the seed indoors early in March or outdoors as early as the ground can be prepared. If sown in August and wintered over in a coldframe, the plants will begin blooming very early the following spring and continue their showy display throughout the summer.

603 ENGELMANN'S GIANTS. Dark and light shades. Huge flowers, very compact and early. Pkt. 60c

604 SWISS BLUE (Ullswater Blue). A solid blue flower with blue-black blotches. Pkt. 50c

605 SWISS GIANTS. The seed we offer will produce flowers of gigantic size, perfectly round, in many new color combinations, and shades. Blooms early. Pkt. 50c

606 SCOTTISH EXHIBITION MIXED. Four-inch flowers of perfect form and substance. Varied colors, heavily blotched. Petals overlapping. Pkt. 60c

607 CHOICE BEDDING MIXED. A complete range of colors. Blossoms slightly smaller than the giant types. Pkt. 25c

608 MAPLE LEAF GIANT MIXTURE. Quite different from other types. The leaves are of giant size and the flowers are up to 4 inches across under good cultivation. Many charming colors are included, both light and dark shades. Pkt. 60c

609 STEELE'S BUTTERFLY PANSY MIXED. A select strain containing a wide range of color. Pkt. 60c

TUFTED PANSIES. See Viola, page 46.

BRILLIANT ANNUAL PHLOX (Flame-Flower)

Quickly grown from seed. For early flowers, sow seed indoors or in a hotbed in March; or sow in open ground from late April until July.

652 NANA COMPACTA. A dwarf, symmetrical plant covered with bright flowers. Mixed colors. Pkt. 15c

PHLOX GIGANTEA

Extra large flowers in a wonderful range of colors. Plants 9 inches high.

653 RED GLORY. Brilliant red with white eye. Pkt. 15c

654 ROSY MORN. Rose-pink with white eye. Pkt. 15c

655 SALMON GLORY. Pure salmon-pink with creamy eye. Pkt. 15c

656 ART SHADES. All soft colors, many with lighter eye. Pkt. 15c

***657 CUSPIDATA MIXED** (Star Phlox). Dwarf, star-shaped flowers with lacinated petals. Pkt. 15c

PERENNIAL PHLOX. See page 46.

POPPIES for Delicate Tints

Sow seed in the fall or early spring where plants are to bloom, for they are difficult to transplant.

Double Annual Poppies

658 SWEET BRIAR. A delightful shade of deep rose-pink. The blooms are double, resembling a very large double begonia. Pkt. 10c; 1/8oz. 25c

659 DOUBLE SHIRLEY or BEGONIA-FLOWERED MIXED. Beautiful double, satiny flowers in every conceivable color. Pkt. 10c; 1/4oz. 35c

Single Annual Poppies

660 AMERICAN LEGION. Large flowers of dazzling orange-scarlet. 2 feet. Pkt. 10c; 1/2oz. 35c; oz. 65c

661 SINGLE SHIRLEY. Colors range through shades of pink, rose, scarlet, carmine, generally edged with lighter shades. Pkt. 10c; 1/2oz. 35c; oz. 65c

PERENNIAL POPPIES. See page 46.

PORTULACA (Moss Rose)

Portulacas enjoy the hottest, driest situation and will grow in almost any soil. Foliage is thick and succulent, like that of sedum, and the flowers resemble single and double roses. Sow seed in May when the ground is warm.

Large-Flowering Single Varieties

***662 SINGLE MIXED.** Pkt. 10c; 1/8oz. 50c; 1/4oz. 90c; oz. \$3.00

Large-Flowering Double Varieties

***663 MIXED COLORS.** A wide range of colors. Pkt. 15c; 1/8oz. 50c; 1/8oz. 75c; 1/4oz. \$1.25

***664 JEWEL SINGLE.** Deep crimson. Larger than any offered before. Pkt. 15c

McCULLOUGH'S PETUNIAS for All Purposes

Thriving on any soil and in the hottest weather. For a showy bed, or for porch or window boxes, few plants equal the Petunia in effectiveness. Sow the seed in pots or flats in the house or hotbed in February or March, or in the garden as soon as the soil is warm. Cover the seed but slightly, for it is very fine.

Double-Flowering Petunias

- 610 ALL-DOUBLE COLOSSAL SHADES OF ROSE.** Under good cultivation the huge flowers will measure from 4 to 5 inches across. Color shades from light and salmon-pink to mostly deep pinks and purplish rose. Height 18 inches. **Pkt. \$1.00**
- 611 ALL-DOUBLE AMERICA.** Flowers rose-pink, or medium size, 2 inches and more across. 1 foot in height and 18 inches in width. **Pkt. 50c**
- 612 ALL-DOUBLE MIXED.** An extra dwarf, giant mixture of Fringed Petunias producing flowers 100 percent double. Height 12 to 13 inches. **Pkt. \$1.00**
- 613 ALL-DOUBLE MRS. DWIGHT D. EISENHOWER.** Low, spreading plant habit; profusion of pleasing, soft salmon flowers, 2½ inches across. **Pkt. \$1.50**
- 614 ALL-DOUBLE ROSE MARIE.** Bronze Medal, All-America Selections, 1947. Rose-pink, fully double, with beautifully ruffled petals. Individual flowers 3 inches or more across. 18 inches tall and 30 inches across. **Pkt. \$1.00**
- ALL-DOUBLE, SEPARATE COLORS.** See page 24.

Large Single-Flowering Varieties

- 615 SNOWSTORM.** Extra large, frilled clear white. Flowers average 4 inches in diameter. Plants medium dwarf. **Pkt. 35c**
- 616 GLAMOUR.** Large, salmon-rose flowers with brown veining on white in the throat. Fringed petals, some are plain edged and smaller in size than the usual 4 to 5 inches. Height 15 to 18 inches. **Pkt. 35c**
- 617 ELK'S PRIDE.** Flowers of rich deep Elk's purple, with large lobes forming a five-pointed star. Dwarf. **Pkt. 25c**
- 618 WHITE CLOUD.** Pure white. Very dwarf and compact. **Pkt. 35c**
- 619 BURGUNDY.** Large, single flowers of deep burgundy-red enhanced by a rich velvety sheen. Throat white, veined purplish red. 3½ inches across. **Pkt. 25c**

Large Single-Flowering Fringed Mixtures

- 620 DWARF GIANTS.** (Ramona Strain.) A dwarf, sturdy type, especially suited for pot culture. Ruffled and fringed, with open, well-marked throats. Most desirable red and dark and light shades. **Pkt. 35c**
- 621 RUFFLED MONSTERS.** A half-dwarf type of erect and robust habit. The colors are mostly the desirable red and dark shades, richly marked and veined. **Pkt. 35c**

Miniature Petunias

- A strain of dwarf, compact miniature Petunias, with plants 6 to 9 inches high and about 8 inches wide, smothered with flowers.
- 622 MARTHA WASHINGTON.** Frilled blooms about 3 inches in diameter. Neat, compact habit. Color bluish-pink veined wine-red; throat dark violet. **Pkt. 25c**
- 623 RUFFLED LITTLE GIANTS MIXED.** Medium-sized, well-ruffled. Colors range from deep crimson to white. **Pkt. 35c**

Single Dwarf Bedding Petunias

Height 8 to 12 inches

- 633 ADMIRAL.** Waved, rich violet-blue flowers on compact plants. **Pkt. 25c**
- 634 BLUE BEDDER.** Mid-blue. **Pkt. 15c**
- 635 BRIGHT EYES.** Dwarf, compact and upright, growing about 10 inches tall, covered the entire summer with small, plain-petaled flowers, 1½ inches across. Rosy pink with white toward the throat. **Pkt. 15c**
- 636 CELESTIAL ROSE.** Improvement on Rose of Heaven. More compact in growth and deeper in color; a beautiful rich satiny rose. **Pkt. 15c**
- 637 CHEERFUL.** Satiny salmon-pink. Growth is densely compact, with no tendency whatever to thin out. **Pkt. 15c**
- 638 ENGLISH VIOLET.** All the flowers on a plant are the same violet-blue shade and hold this uniform color from the time they first open until the last bloom. **Pkt. 15c**
- FIRE CHIEF.** See page 24.
- 639 GLOWING ROSE.** The individual flowers are very large and of an even shade, holding the intense color right up to the last flower. Plants well rounded and uniform. Blooms early. **Pkt. 20c**
- 640 MARS.** The deepest crimson and the largest flowered in the bedding Petunia class. Comes true to type and color. When grown well, the flower will reach 3 inches. **Pkt. 15c**
- 641 HEAVENLY BLUE.** Silvery light blue. **Pkt. 15c**
- 642 ROSY MORN IMPROVED.** Dwarf, extra select. Soft carmine-pink, with white throat. **Pkt. 15c; ½oz. 40c; ¼oz. 70c**
- 643 ROSE OF HEAVEN IMPROVED.** Brilliant crimson-rose. **Pkt. 15c; ½oz. 40c; ¼oz. 70c**
- 644 SALMON SUPREME.** A distinct color in bedding Petunias, with clear salmon-pink flowers that make an attractive display. **Pkt. 25c**
- 645 SNOWBALL IMPROVED.** This compact white Petunia retains its shape throughout the growing season. Clear-throated blooms nearly 3 inches in diameter, produced profusely to make the finest mass effect one could desire. **Pkt. 15c**
- 646 SINGLE DWARF BEDDING MIXED.** Includes all the varieties listed above as well as many others. **Pkt. 15c; ½oz. 75c**

Balcony or Large-Flowered Petunias

A splendid large and free-flowering type for window boxes, vases, hanging baskets, etc. The flowers average 3 inches across and make a very effective display over a long season.

- 647 BLACK PRINCE.** Rich velvety crimson-red. **Pkt. 15c**
- 648 BLUE.** Velvety indigo-blue. **Pkt. 15c**
- 649 ROSE.** Brilliant rose-pink; very effective. **Pkt. 15c**
- 650 WHITE.** Pure white. **Pkt. 15c**
- 651 BALCONY MIXED.** A mixture of the above varieties. **Pkt. 15c**

Single Bedding Petunias

Height about 12 to 18 inches.

- 624 BLUE BEE.** Violet-blue. **Pkt. 10c**
- 625 FLAMING VELVET.** Brilliant velvety scarlet. **Pkt. 15c**
- 626 GENERAL DODDS.** Velvety blood-red. **Pkt. 10c**
- 627 HOWARD'S STAR IMPROVED.** Velvety purple with a pure white star in the center of the flower. **Pkt. 15c; ½oz. 60c**
- 628 PEACH RED.** Honorable Mention, All-America Selections, 1946. Unique rich salmon-cerise; flowers are plain petaled, of medium size, 2 inches or more across, and borne freely throughout the entire season. A new color in Petunias. Strong, luxuriant growth to 15 inches or more. **Pkt. 15c**
- 629 RADIANCE.** Cerise-rose with enough underlying salmon to remove the harshness; the throat is golden yellow. Blooms are about 2 inches in diameter. Holds its uniform, neat habit until late fall. **Pkt. 15c**
- 630 TOPAZ ROSE.** Fiery velvety rose that will neither fade nor burn under the hottest sun. The throat is the color of topaz. Very fragrant. **Pkt. 15c; ½oz. 50c**
- 631 WHITE KING.** Pure white. Very free flowering. One of the finest white Petunias. **Pkt. 10c; ½oz. 35c**
- 632 CHOICE SINGLE MIXED.** A mixture of moderate-sized flowers; extremely free flowering. **Pkt. 10c; ½oz. 60c; ¼oz. \$1.00**
- 665 RICINUS, Zanzibarensis** (Castor Bean). Grows to immense size. Leaves sometimes measure 30 inches across and range in color from bright green to deep bronze. Choice mixed colors. **Pkt. 10c; oz. 50c**
- 666 RUDBECKIA, Starlight.** Semi-double large flowers ranging in color from primrose-yellow to mahogany, some bicolors with mahogany centers. Height 3 feet. **Pkt. 20c**
- SALPIGLOSSIS** (Painted Tongue). Richly colored, funnel-shaped flowers of many shades including yellow, buff, crimson and scarlet and extending through to purple and almost black.
- 667 Dwarf Giant-Flowering.** All colors. **Pkt. 10c**
- *668 Vesuvius.** Violet-purple with a deep golden throat edging to silver. Dwarf. **Pkt. 15c**

SALVIA (Scarlet Sage)

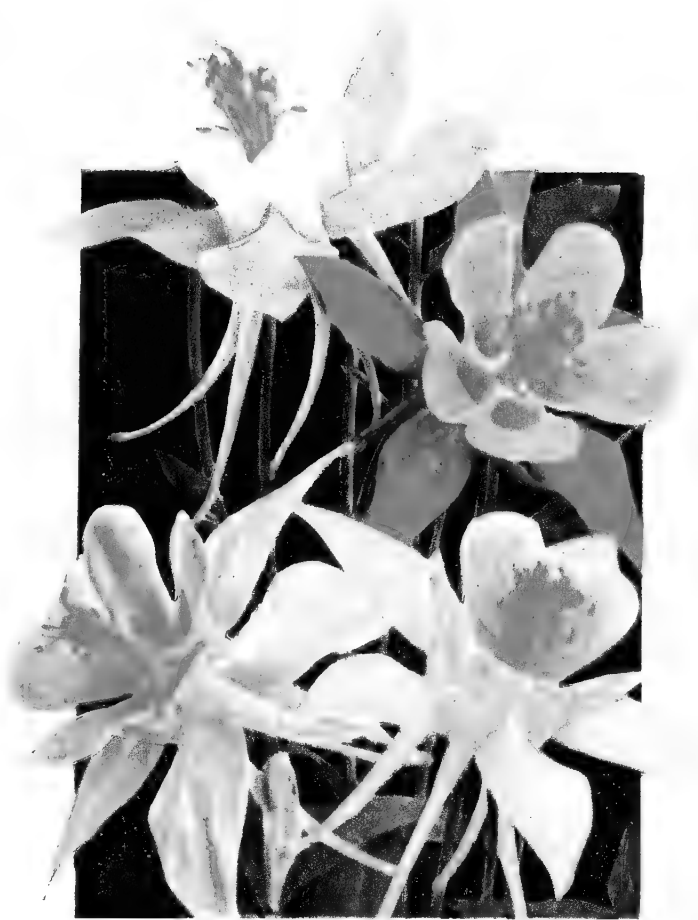
Blooms are borne on long spikes well above the foliage and continue in good condition a long time.

- 669 SPLENDENS.** Bright scarlet. Height 2¼ to 3 feet. **Pkt. 20c; ½oz. 75c**
- 670 AMERICA or GLOBE OF FIRE.** This is the freest and most continuous blooming of all the Scarlet Sages, also the most uniform in habit of growth. **Pkt. 25c; ½oz. 60c**
- 671 FARINACEA (Blue Bedder).** 2½ feet high and the flowers are of a bright mid-blue. August to October. **Pkt. 20c**
- *672 SANVITALIA, Procumbens fl.-pl.** (Creeping Miniature Zinnia). Flowers much like tiny zinnias, golden yellow with very dark purple centers, some single and others double. The plants are prostrate and creep over the soil instead of growing upward. Bloom from June until frost. Height 6 inches. **Pkt. 10c; ½oz. 30c**



832 DELPHINIUM, BLACKMORE & LANGDON'S STRAIN
Pkt. 40c

Perennials like those shown here are the mainstay of the flower border in midsummer. The truly regal Delphinium seems to be king of the border. Its stately spires in tones of blue, purple and white are indispensable. If Delphinium culture seems sometimes a little difficult, perhaps we value the blooms all the more when we do have success with growing them. The dainty Columbine is among the most graceful and winsome of cut flowers, being an ideal companion for the queenly Rose in bouquets. Gaillardia, on the other hand, are sturdy and somewhat heavy, but they have their place, too.



796 AQUILEGIA (Columbine)
LONG-SPURRED MIXED. Pkt. 25c



845 GAILLARDIA, PORTOLA HYBRIDS
Pkt. 20c



888 POLYANTHUS, GIANT BOUQUET
Pkt. 35c



870 LINUM PERENNE (Flax)
Pkt. 15c



793 ANTHEMIS KELWAYI
Pkt. 10c

To plan and plant a successful perennial border or garden is an accomplishment any gardener can be proud of. A few basic rules are worth following: don't plan too elaborate color combinations; arrange the plants in groups rather than straight lines; avoid single specimens of any kind; have regard for color and season of bloom and height of growth.



820 SHASTA DAISY, CONQUEROR
Pkt. 15c; 1/8oz. 35c

Raising your own perennial plants from seed is not a difficult task, and is much more economical than buying specimen plants. Besides, it gives the gardener a more personal interest and concern for every one of his perennials and gives him the opportunity to make a better comparison between varieties, as a basis of his choice for the next season.



889 PYRETHRUM HYBRIDUM (Painted Daisy)
Pkt. 25c

Keeping up with the new introductions of each year keeps the gardener on his toes. Plant hybridizers are real wizards who give us all sorts of new combinations of color, new forms of bloom, new hardiness and disease resistance. These novelties are carefully tested before being put on the market, and while not all of them do equally well in every section of the country their superior qualities are well worth investigating. So get acquainted with the new flowers; otherwise you will miss a lot.



878 PLATYCODON GRANDIFLORUM
Pkt. 15c

SWEET SCABIOSA (Pincushion-Flower; Mourning Bride).- Excellent for cutting. Blooms are borne on long stems, are fragrant, double, and somewhat the shade of a pincushion. Seed can be sown in open border and thinned out from 1 to 1½ feet apart. Grows 2 to 2½ feet high.

673 Rosette. Deep rose heavily suffused with salmon. Pkt. 10c; ½oz. 25c

674 Blue Cockade. The purest deep azure-blue. Conical in shape. Pkt. 10c; ½oz. 25c

675 Giant Loveliness. Soft delicate salmon-rose. Pkt. 10c; ½oz. 25c

676 Peach Blossom. Peach-blossom-pink, of large size and with long stem. Pkt. 10c; ½oz. 25c

677 Shasta. Pure white flowers 3½ inches across, with extremely long stems. Pkt. 10c; ½oz. 25c

678 Crimson. Rich rosy crimson. Pkt. 10c; ½oz. 25c

679 Black Knight. Very dark maroon-red. Large size and vigorous growth. Double, giant globes of brilliant red. Pkt. 15c; ½oz. 30c

680 Pink Beauty. Clear soft pink. Very large, well-formed flowers. Pkt. 15c; ½oz. 30c

681 Oxford Blue. A deep rich tone of Campanula-blue. Long-stemmed, giant, full double blooms larger than any other variety offered. Pkt. 15c; ½oz. 30c

682 Giant Hybrids. Comprising many beautiful colors. Height 2½ ft. Pkt. 10c; ¼oz. 30c; oz. 90c

COLLECTION

2682 One pkt. each of Blue Cockade, Peach Blossom, Crimson, Rosette, Shasta, Loveliness and Black Knight (Value 75c) 7 pkts. 50c

Stocks, Giants of California

An excellent group which blooms very early. When planted close they grow to a height of 3 feet or more, having only a single central spike with a 15-inch stem of florets.

684 GOLDEN GATE. Yellow.

685 MONTEREY. Pink.

686 PACIFIC. Blue.

687 RED WOODS. Blood-red.

688 SANTA BARBARA. Chamois.

689 SANTA MARIA. White.

690 SEQUOIA. Rose-carmine.

691 TAHOE. Lavender.

692 YOSEMITE. Rose.

693 EXQUISITE MIXED. All colors.

Any of the above: Pkt. 15c; ½oz. 85c

STOCKS

**Cut-and-Come-Again Stocks
Early Giant Imperial
(Improved Bismarck)**

One of the best Stocks for inside and outside planting. The plants grow in pyramidal form, covered with large double flowers.

694 GIANT IMPERIAL MIXED. Pkt. 15c

Ten-Weeks' Stocks

Sweet-scented, double flowers on strong spikes. Fine for the garden. 15 to 18 inches tall.

695 FINEST MIXED. All colors.

Pkt. 10c; ½oz. 40c; ¼oz. 75c

ANNUAL SWEET WILLIAM

Many beautiful colors, some starred and mottled, others with clear white eyes. Plants will flower the first season if the seed is sown early. They will live over winter, however, and last for several years. Height 15 inches.

683 MIXED COLORS. Pkt. 10c; ½oz. 35c
SNAPDRAGON. See Antirrhinum, page 28.

SUNFLOWER (Helianthus)

Bloom early and continue until frost.

696 SUN GOLD. Double Sunflower. Cushion-like blooms, 4 to 5 inches across. Height 5 feet. Pkt. 15c; oz. 60c

697 TALL RED. Flowers star-shaped, of brightest golden yellow, with dark centers. Height 5 to 6 feet. Pkt. 10c

SWEET PEAS

Seed should be sown very early in the spring, as soon as the soil can be worked. It should be planted 6 inches deep and covered at first with only 2 inches of soil, the trench being filled as the plants grow. One ounce sows 35 to 40 feet in a row. It is best to soak the seeds for several hours before they are planted. If this plan of planting early is followed, and Sweet Peas are kept mulched or watered abundantly, they will generally give a fine crop of blooms.

Early-Flowering Varieties

While these are especially adapted for forcing under glass for winter and early spring blooming, they are also valuable for outdoor culture coming into bloom five or six weeks earlier than the regular Spencer type. If the flowers are kept cut, they will continue to bloom for a long time.

698 MARINER. Clear marine-blue.

699 BRIDESMAID. Deep silvery pink; long-stemmed.

700 HARMONY. Clear lavender.

701 HOPE. A mammoth-flowering pure white.

702 JOSIE. Extra long-stemmed clear rose-pink.

703 MAJESTIC ROSE. Rose-pink; long stems.

704 MARS. Oxblood-crimson.

705 SEQUOIA. Extra large, salmon-rose.

706 VALENCIA. Sunproof; orange; long-stemmed.

Any of the above: Pkt. 10c; oz. 30c; ¼lb. 90c

707 EARLY-FLOWERING MIXED. A splendid mixture containing all colors. Pkt. 10c; oz. 25c; ¼lb. 65c

2707 Eight Early-Flowering Sweet Peas

Contains 8 separate packets of named varieties. 8 pkts. 60c

708 BEST SPENCER MIXED. The best varieties in all beautiful shades and colors. A superior mixture.

Pkt. 10c; oz. 25c; ¼lb. 65c; lb. \$2.00

709 CUTHBERTSON MIXED. Bloom under hot weather conditions. Stems average 1 foot in length.

Pkt. 15c; oz. 50c

710 TAGETES, Signata Pumila, Little Giant (Pigmy Marigold). Slender, fern-like foliage dainty, single, golden orange flowers on plants 4 to 6 inches high, with spread of 8 to 10 inches. Pkt. 10c

TAHOKA DAISY

711 One of the best of the blue Daisies for all-summer bloom, mid-June until November. Big blossoms of pure blue-lavender with little golden centers. Flower stems of good length; cutting and lasting qualities excellent. Pkt. 20c

TITHONIA

(Golden Flower of the Incas; Mexican Sunflower)

Tithonia is a rare plant found growing in Peru as early as 1531 and later found in Mexico.

712 FIREBALL. Brilliant, shade of scarlet-orange, the petals in dazzling contrast to the clear yellow center. Flowers single, 4½ to 5 inches in diameter, long stems. Tall plants, height of 8 or 9 feet, grayish green, woolly foliage. It should be started indoors and the plants set out after danger of frost has passed. Pkt. 15c

TITHONIA TORCH. See page 33.

TORENIA (Wishbone-Flower). Snapdragon-like flowers. Bushy plants 1 foot tall.

713 Fournieri. Showy, light blue flowers prettily blotched deeper blue; yellow throat. Pkt. 15c

THUNBERGIA (Black-Eyed Susan). An attractive climber growing 4 to 6 feet tall, ideal for window boxes, hanging baskets, etc. Flowers 1 inch across, of creamy white, buff and orange colors, with very dark brown throats; free blooming.

714 Mixed. Pkt. 10c; ¼oz. 45c

VERBENA

Can be started in the house and transplanted to the garden when the weather is warm, or sown in the open ground, thinned and transplanted. Height 1 foot.

715 BEAUTY OF OXFORD. Colors shade from rose-pink to rose-red. Pkt. 15c

716 LAVENDER GLORY. True lavender with a medium-sized, creamy white eye. Pkt. 15c

717 ROYALE. 1¼ inches in diameter. The color is rich, deep, royal blue with a large creamy yellow eye. Pkt. 15c

718 SALMON-PINK. Beautiful salmon-pink flowers. Pkt. 15c

719 SPECTRUM RED. An intense red having no eye. Florets are 1¼ inches in diameter. Pkt. 15c

720 WHITE. Pkt. 15c

721 MAMMOTH MIXED. A wonderful range of charming colors in every conceivable shade. Pkt. 15c

COLLECTION

2721 One pkt. each of Royale, Spectrum Red, Salmon-Pink and White. (Value 60c) 4 pkts. 45c.

VINCA (Periwinkle). Valuable for bedding. Seed should be sown early.

725 Mixed. Pkt. 10c

DWARF VERBENAS

722 SALMON QUEEN. Bushy plant about 8 to 10 inches high and 12 to 15 inches across. Bright salmon-pink with a white eye. Pkt. 20c

723 STARLIGHT. A bright mid-blue with creamy white eye. Plants are of uniform, bushy habit, about 8 to 10 inches high. Pkt. 20c

VERBENA VENOSA (Hardy Garden Verbena)

*724 DELICATE LILAC. Forms erect plants 12 inches high, with delicate lavender flowers produced in such masses as to completely hide the foliage. It is perfectly hardy and does well in beds, borders and may also be used in the rock garden. A perennial treated as an annual, blooming the first year from seed; if sown early will then bloom until frost. Pkt. 20c

VIOLA. See Perennials, page 46.

McCULLOUGH'S ZINNIAS FOR EVERY PURPOSE

Few, if any, annuals have greater utility value than the Zinnia. Many distinct types have been developed, some bearing flowers of enormous size and others producing miniature double blooms in profusion. For early flowers sow seed indoors in March and transplant seedlings to the garden in early May, or, if preferred, sow seed in open ground in April. Space the large-flowering and taller sorts from 1½ to 2 feet apart, Pompon or Lilliput types 8 to 12 inches apart.

Giant Dahlia-Flowered Zinnias

The flowers are immense, often measuring 5 to 6 inches across and 3 to 4 inches in depth. They are borne profusely from late summer until frost. Plants are 2½ to 3 feet tall, of well-rounded form.

729 CANARY BIRD. Primrose. Pkt. 15c

730 CRIMSON MONARCH. Flaming crimson. Pkt. 15c

731 DREAM. Deep lavender, turning to mallow-purple. Pkt. 15c

732 EXQUISITE. Color light rose with center deep Tyrian rose. Pkt. 15c

733 GOLDEN DAWN. Beautiful golden yellow. Pkt. 15c

734 GOLDEN STATE. Yellow in the bud, turning orange when in full bloom. Pkt. 15c

735 ILLUMINATION. Similar to Exquisite, but a striking shade of deep rose. Pkt. 15c

736 LUMINOSA. Deep pink. Pkt. 15c

737 METEOR. Deep red; the darkest of all the red shades. Pkt. 15c

738 OLD ROSE. Real old rose. Pkt. 15c

739 ORIOLE. An orange and gold bicolor, changing slightly as it ages. Pkt. 15c

740 POLAR BEAR. Pure white. Pkt. 15c

741 PURPLE PRINCE. A fine deep purple. Pkt. 15c

742 SCARLET FLAME. Bright scarlet, with a delightful blending of orange throughout the petal. This is not a bicolor. Pkt. 15c

743 WILL ROGERS. Very fine deep scarlet-red. Pkt. 15c

Any of the above Dahlia-Flowered Zinnias
½oz. 35c; ¼oz. 60c; oz. \$1.75

744 SPECIAL GOLD MEDAL MIXTURE. Mixture containing all the above varieties. Pkt. 15c; ¼oz. 50c; oz. \$1.50

SPECIAL COLLECTIONS

Giant Dahlia-Flowered Zinnias

2744 One pkt. each of the above 15 separate named varieties. (Value \$2.25) 15 pkts. \$1.75.

3744 One pkt. each of Crimson Monarch, Dream, Illumination, Golden Dawn, Polar Bear. (Value 75c) 5 pkts. 60c.

745 PASTEL MIXTURE DAHLIA-FLOW-ERED ZINNIAS. Composed solely of delicate colors. Soft shades of lemon-yellow, shell-pink, delicate salmon, light rose and orchid. Pkt. 15c; ½oz. 35c; ¼oz. 60c

Zinnia, Crown o' Gold

773 MIXED. Each petal is overlaid with deep golden yellow at the base, while carrying out the individual flower color at the tip. The effect is a very pleasing two-tone color harmony. The color range covers the more popular shades—old rose, cream, yellow, carmine, and burnished red. Pkt. 15c

California Giant Zinnias

The same robust habit as the Dahlia-Flowered. When the flowers are in full bloom, they reach enormous size, but their flatness gives them a most graceful appearance.

746 BRIGHTNESS. Bright deep pink.

747 CHERRY QUEEN. Brilliant cherry-rose.

748 DAFFODIL. Canary-yellow.

749 GRENADIER. Bright dark red.

750 LAVENDER QUEEN. Deep lavender turning to purple.

751 MISS WILLMOTT. Soft pink.

752 ORANGE KING. Orange-scarlet.

753 PURITY. White.

754 ROSE QUEEN. Striking deep rose.

755 SALMON QUEEN. Salmon-rose.

756 VIOLET QUEEN. Deep purple.

Any of the above:
Pkt. 10c; ½oz. 35c; ¼oz. 60c; oz. \$1.75

757 FINEST MIXED. A mixture of the above varieties.

Pkt. 10c; ½oz. 35c; ¼oz. 50c; oz. \$1.50

Harmony Type Zinnias

An entirely distinct and attractive strain of Zinnia of exquisite form, reminding one of the double crested cosmos and quite often resembling the annual scabiosa. The flowers are of medium size and each bears a collar of petals surmounted by a full double crest of the same tone. Height about 2½ feet.

771 MIXED. Colors range from pale rose to crimson-scarlet with orange, golden and purple shades. Pkt. 15c

726 WALLFLOWER. Early Wonder Mixed. If planted in early spring will be in full bloom by early summer. Pkt. 15c

727 McCULLOUGH'S "SURPRISE GARDEN" FLOWER SEED. A mixture of annuals, biennials and perennials consisting of sorts growing at moderate heights. No vines, trailers or very tall-growing plants are included.

Large pkt. 10c; oz. 25c; ¼lb. 75c; lb. \$2.50

728 XERANTHEMUM, Double Mixed. (Everlasting Flower.) Bright and pretty everlasting with silvery foliage and silky flowers of pink, white and purple. Pkt. 10c

Lilliput Zinnias

This type of Zinnia forms a bush about 12 to 15 inches high and is covered with small, very double flowers in profusion.

758 CANARY-YELLOW.

759 CRIMSON GEM.

760 DAINTY GEM. Bicolor rose.

761 GOLDEN GEM.

762 LILAC GEM.

763 PINK GEM. Deep pink.

764 PURPLE GEM.

765 ROSEBUD.

766 SALMON-ROSE.

767 SCARLET GEM.

768 WHITE GEM.

Any of the above Lilliput Zinnias:

Pkt. 10c; ½oz. 25c; ¼oz. 40c; oz. \$1.20

769 FINEST MIXED. A mixture of the above colors.

Pkt. 10c; ½oz. 35c; oz. \$1.00

770 PASTEL MIXTURE. Composed solely of delicate colors not found in the ordinary Lilliput Mixture. Soft shades of apricot, peach, creamy yellow, shell-pink, delicate salmon, light rose and orchid.

Pkt. 15c; ½oz. 25c

Our Special Offer of Lilliput Zinnias

2769 One pkt. each of Canary-Yellow, Scarlet Gem, White Gem, Salmon-Rose and Purple. (Value 50c) 5 pkts. 40c.

Fantasy Zinnias

Shaggy, ray-like petals. Plants 2½ to 3 feet in height, will bloom in 45 to 50 days after seed is sown.

774 PINK FRILLS. Soft flesh-pink.

775 STARDUST. Golden yellow.

776 WHITE LIGHT. Pure white.

777 WILDFIRE. Dazzling scarlet.

778 FANTASY MIXED. Includes the brightest shades of red and orange as well as pastel pink and cream.

Any of the above:

Pkt. 15c; ½oz. 35c; ¼oz. 60c

779 SUPER FANTASY, DAVID BURPEE MIXED. Very large, with petals attractively curled and quilled. Pastel colors predominate. Plants about 3 feet tall. Pkt. 15c

780 EARLY WONDER. Dwarf, early-flowering Zinnias. Mixed colors. Pkt. 15c

Cactus-Flowered Giants

Petals are quilled, curled and pointed; flowers 4 to 4½ inches across. 2 inches deep.

772 MIXED COLORS. Pkt. 15c

Various Zinnias

781 MEXICANA HYBRIDS. Single and semi-double flowers somewhat like those of the French marigold, in shades of yellow, orange, crimson and brown. Height 18 inches. **Pkt. 10c; 1/8oz. 35c**

Zinnia Linearis

783 A dwarf, early-flowering form somewhat comparable to Mexicana Zinnia. The single flowers are deep golden orange in color, with a delicate light yellow stripe which contrasts boldly with the dark center. It is early flowering, and the plant reaches a height of 8 to 10 inches, with a spread of as much as 2 feet. **Pkt. 15c**

Gaillardia-Flowered Zinnia

782 NAVAJO. Medium-large flowers about 2 inches in diameter, in attractive two-tone combination of rose, bronze, yellow and orange. Fairly long stems. About 2 feet tall; fine for cutting. **Pkt. 10c; 1/8oz. 25c**

McCullough's Special Large-Flowering Zinnia Mixture

787. Consists of all giant sorts, including the best of the Dahlia-Flowered California Giants, Crown o' Gold, Curled and Crested. This mixture will produce a riot of color in garden or for table. **Pkt. 15c; 1/8oz. 25c; 1/4oz. 40c; oz. \$1.25**

Tom Thumb Zinnia

784 Dwarfest Zinnia known. 4 to 6 inches high, literally covered with flowers of the Lilliput type. Mixed colors. **Pkt. 15c**

Pumila Dwarf Double Zinnia (Cut-And-Come-Again)

785 Blooms early. Flowers intermediate in size between California Giants and Lilliput. Mixed colors. **Pkt. 15c**

786 LUTHER BURBANK. Many self-colors, also unusual two- and three-color combinations. Flowers 5 to 5½ inches across, composed of numerous petals which curl back somewhat to form thick flower heads. 3 to 4 feet tall. **Pkt. 15c**

Seeds of Hardy Perennial Flowers and Rock Garden Plants

Planting your own perennial or rock garden is a great satisfaction, and certainly nothing is more fascinating than actually growing from seed the plants and varieties desired. Perennials go on living and increasing for a number of years, the stems dying down each season and coming again from the roots each spring. Most varieties are easily raised from seed sown during the late spring and early summer in frames or seed beds and transplanted to permanent quarters in late summer or early autumn. If the seed be planted in August,

plants should be wintered over in the coldframe and transplanted to the border or rock garden the following spring.

We recommend sowing perennial seeds in the spring. Seed germinates better and seedlings have an opportunity to develop into sturdy plants by fall, which permits them to winter over more successfully. The majority of these perennials bloom the second year from seed although some, like Coreopsis and Gaillardia, if grown early, will bloom the first year. Perennials should be placed in clumps of three or five and left undisturbed for several years.

Varieties marked * are especially suited for the rock garden.

ACHILLEA**(Milfoil or Yarrow)**

788 PTARMICA, THE PEARL. A free-blooming hardy perennial, bearing a profusion of small, double, white flowers on plants 2 feet tall, during July and August. Easily grown from seed; flowers the first season if sown early. **Pkt. 15c**

789 AGROSTEMMA, Coronaria (Mullein Pink). Silvery foliage and bright crimson flowers from June to August. Free-flowering hardy perennial of easy culture; blooms the first season. Fine for cutting. Height 2½ to 3 feet. **Pkt. 15c**

ALYSSUM**(Rock Madwort)**

***790 SAXATILE COMPACTUM** (Basket of Gold). Showy, bright yellow flowers. Excellent for rock work. Height 1 foot. **Pkt. 15c; 1/4oz. 60c**

***791 SAXATILE COMPACTUM, SILVER QUEEN.** Broad masses of pale lemon flowers in early spring. Useful in the border as well as in the dry wall or rock garden. **Pkt. 15c**

792 ANCHUSA, Italica, Lissadell. Upright habit, having flowers of the brightest blue. **Pkt. 25c**

ANTHEMIS**(Hardy Marguerite)**

793 KELWAYI. A most satisfactory hardy perennial, bearing daisy-like, golden yellow blooms all summer. Excellent for cutting. Height 2 feet. **Pkt. 10c**

McCullough's Giant Long-Spurred Columbines

The following group comprises without doubt the finest long-spurred Columbines to date. Huge flowers on plants 3 to 4 feet high. Strong, robust and very free flowering.

794 BLUE SHADES. **Pkt. 35c**

795 PINK SHADES. **Pkt. 35c**

796 LONG-SPURRED MIXED. All shades, including many not found in other strains. **Pkt. 25c**

AQUILEGIA (Columbine)

Hardy perennial. When planted in partial shade; the flowers grow larger and last longer. Easily raised from seed.

***797 ALPINA.** Powder-blue; medium spurs. Sheaves of flowers open at a time. Fine for rock garden or low border. Dwarf. **Pkt. 20c**

798 LONGISSIMA. Of striking formation, with deep yellow petals, paler yellow sepals, and extremely elongated spurs. The plants are from 2 to 3 feet tall, with characteristic bright green cut-leaf foliage and reddish stems. **Pkt. 35c**

799 CRIMSON STAR. Long-spurred crimson and white. About 2 feet high. **Pkt. 35c**

800 DOBBIE'S IMPERIAL HYBRIDS. These new long-spurred Columbines are unequaled for their range of colors and sturdiness. They have received a great deal of attention abroad and are considered in England to be one of the best mixtures offered today. **Pkt. 25c**

801 MRS. SCOTT ELLIOTT'S STRAIN OF LONG-SPURRED HYBRIDS. A renowned English strain, which enjoys a world-wide reputation for large flowers with long spurs. The colors range from pure white through tones of pink, blue, yellow and red. **Pkt. 25c**

***802 ARABIS alpina** (Rock-Cress). The spreading tufts are covered with a sheet of pure white flowers as soon as the snow disappears. Withstands the drought and is always neat. Height 6 inches. **Pkt. 15c**

ARMERIA (Sea Pink or Thrift). Attractive dwarf plants that are invaluable for the rock garden. Forms evergreen tufts of bright green foliage from which flowers appear in dense heads on stiff, wiry stems 3 to 12 inches high. Easily raised from seed.

803 Giant Hybrids. A mixture of bright pink, red and carmine. **Pkt. 20c**

804 HARDY PERENNIAL ASTERS, Mixed (Michaelmas Daisies). Single, fall-flowering hardy herbaceous plants, thriving in any good garden soil. If sown early they will flower the first season. Height 3 feet. **Pkt. 20c**

AUBRIETA (False Wall Cress). Dwarf perennials. Easily raised from seed, blooming the second year. The plants should be well clipped after flowering so that they will make a fine growth for the next year's bloom.

805 Large-flowering Hybrids. Exceptionally fine strain, including a wide range of many unusual colors, which cannot be fixed and offered separately. **Pkt. 15c**

Varieties marked * are especially suitable for the rock garden.

BELLIS PERENNIS (English Daisy). A well-known, dwarf-growing plant, which bears massive, very double, aster-like flowers. Plants are about 6 inches high and bear in greatest profusion.

*806 **Double Mixed**. Shades of pink, white, and red. Pkt. 15c

CAMPANULA

Easily raised from seed and having the advantage of flowering late when blooms in the rock garden or perennial border are scarce.

Campanula Carpatica (Bellflower)

Will succeed in ordinary rich soil.

*807 **BLUE** (Carpathian Harebell). Free-flowering hardy perennial plants, continuing in bloom the whole season; color clear blue. Good for edging and rock gardens. Will bloom the first season if sown early. Height 6 inches. Pkt. 15c

*808 **WHITE**. Pkt. 15c

Campanula Medium (Single Canterbury Bells)

Cover during the winter with evergreen boughs to protect against severe freezing.

809 **DARK BLUE**. Pkt. 10c

810 **LIGHT BLUE**. Pkt. 10c

811 **PINK**. Pkt. 10c

812 **WHITE**. Pkt. 10c

813 **SINGLE MIXED COLORS**. Pkt. 10c

Campanula Calycanthema (Cup-and-Saucer Canterbury Bells)

814 **SPECIAL MIXTURE**. Pkt. 10c; 1/8oz. 50c

815 **HARDY BORDER CARNATIONS, Grenadin Mixed**. Dwarf, compact plants with a great profusion of double flowers in various colors. Early flowering and invaluable for cutting. Will bloom first year if seed is sown early. Height 1 foot. Pkt. 25c

816 **CENTAUREA, Montana** (Perennial Cornflower). Grows 2 feet high, bearing large, violet-blue flowers from July to September. Pkt. 15c

CERASTIUM (Snow-in-Summer). These blanketing hardy perennial plants are suitable for growing over stones and rough banks, also on rough places in the rock garden or for edging of borders.

817 **Tomentosum**. Narrow, silvery foliage with white flowers. Suitable for planting in dry, sunny places. Height 3 to 6 inches. June. Pkt. 10c; 1/8oz. 35c; 1/4oz. 55c

CHEIRANTHUS. Very pretty dwarf, hardy biennial plants, usually handled as annuals, flowering freely throughout the summer from seed sown in spring. For early spring flowering, sow in late summer. Splendid for rock gardens.

818 **Golden Bedder** (Siberian Wallflower). About 12 inches high, with head of brilliant orange flowers. Pkt. 10c; 1/4oz. 25c

CHRYSANTHEMUM MAXIMUM

(Shasta Daisy)

819 **NEW GIANT DOUBLE WHITE**. (Diener Strain.) An assortment of various types of double flowers ranging from the most fully double, fringed-petaled sorts through semi-doubles to a type which, though single, forms unusual and beautifully shaped flowers with laciniated, curled and quilled petals. The flowers are all large and carried on long, wiry stems. Pkt. 40c

820 **CONQUEROR**. A Shasta Daisy producing very large, pure white flowers, 5 inches in diameter. Blooms in midseason. The largest variety for cutting yet produced. Pkt. 15c; 1/8oz. 35c

821 **ALASKA**. A splendid hardy perennial with flowers rarely less than 5 inches across, of the purest glistening white. Pkt. 10c; 1/8oz. 50c

COREOPSIS (Tickseed)

Will flower the first year if sown very early.

822 **MAYFIELD GIANT**. Deep golden yellow. A tall and vigorous plant, having long, firm stems and large individual blooms. Excellent for cutting. Blooms freely all summer. Pkt. 20c; 1/8oz. 40c

823 **SUNBURST**. This new double form is just as easy to grow as the single varieties, and the extra petalage adds a further charm. Pkt. 20c

DELPHINIUM

(Hardy Perennial Larkspur)

Delphiniums thrive in rich, deeply cultivated soil; however any soil, even hot and sandy, if well watered and fertilized, will give excellent results. If the flowering spikes are cut after blooming to within 8 to 10 inches from the ground, and if the soil is then fertilized and watered, fresh growth will be produced, which will give blooms. Coal ashes strewn over the crown will protect the plants from slugs through the winter and spring and also provide for natural drainage of excess moisture from the crowns.

Pacific Strain Delphiniums

We offer seed direct from originator of the new Pacific Strains of Delphinium. Each color has been developed separately to come true from seed with only slight variations. The originator reports it to be 90 percent true from seed.

824 **BLACK KNIGHT SERIES**. Deep midnight-violet—the darkest of them all. Pkt. 50c

825 **BLUEJAY SERIES**. The bluest of the present blues, ranging from medium to dark with strongly contrasting dark bee. Very long spikes, quite mildew resistant. Pkt. 50c

826 **GALAHAD SERIES**. Clear white of enormous size. Pkt. 50c

827 **KING ARTHUR SERIES**. Brilliant royal violet with large white bee. Individual florets 3 1/2 inches in diameter; very thin, woody stems with small foliage. Pkt. 50c

828 **GUINEVERE SERIES**. Light pink-lavender self with white bee. Individual florets 2 1/2 to 3 inches in diameter. Pkt. 50c

829 **PERCIVAL**. Double, white flowers. Black and striped center bee. Pkt. 50c

830 **SUMMER SKIES SERIES**. Clearest light blue with white bee. Florets 2 to 2 1/2 inches in diameter. Pkt. 50c

831 **GIANT PACIFIC HYBRIDS**. (V. & R.) Mildew resistant. Shades of lavender, violet and blue. We believe this strain to be an improvement in the Hybrid Delphinium class. Pkt. 40c; 1/8oz. \$1.35

Delphinium Mixtures of Famous English Specialists

832 **BLACKMORE & LANGDON'S STRAIN**. We take great pride in offering this unusually fine mixture, which contains nearly all of the newest varieties developed by these famous English Delphinium specialists. Many of their varieties have earned gold medal awards in England. The seed we offer is saved from their best varieties. Mildew resistant. Pkt. 40c

833 **WREXHAM HYBRIDS, HOLLY-HOCK STRAIN**. A fine mixture of all shades of blue, lavender and mauve. Large flowers well placed on long pyramidal spikes. Their sturdy appearance reminds one of hollyhocks. Pkt. 35c; 1/8oz. 90c; 1/8oz. \$1.60

Loose Spray Delphiniums Excellent for Cutting

834 **BELLADONNA** (Cliveden Beauty). This is the freest and most continuous-blooming Hardy Larkspur. Clear turquoise-blue. Excellent for cutting. Pkt. 15c

835 **BELLAMOSUM**. A rich, deep blue form of the popular light blue Belladonna; having the same free-blooming and other good qualities. Pkt. 15c

836 **CAMBRIDGE BLUE**. A rich clear blue, growing about 2 to 3 feet high. Excellent for cutting. Pkt. 15c

837 **CHINENSE, BLUE MIRROR**. Clear, bright navy-blue, wide-open flowers in a new type of dwarf Delphinium Chinense, without spurs and facing upward. Plants 12 to 15 inches tall, with long blooming season. Will bloom the first year from seed sown outdoors in the spring. Pkt. 20c

DELPHINIUM, ANNUAL. See Larkspur, page 36.

DIANTHUS (Hardy Garden Pinks)

Every garden should include some Pinks because they are so easily grown and make such a wonderful display with their brightly-colored flowers. The plants are covered with sweet-scented blooms all during the summer. Grows about 1 foot high.

*838 **ALLWOODI**. A splendid strain, being half Carnation and half Pink. 75 percent come double. Mixed. Pkt. 35c

BARBATUS. See Sweet William, page 46.

839 **HIGHLAND HYBRIDS**. Tall, strong-stemmed Pinks in a mixture of colors, beautifully marked and zoned. Pkt. 25c

*840 **PLUMARIUS** (Pheasant's Eye Pink). A semi-double, hardy variety, clove-scented. Flowers blush-white, shaded with crimson and maroon. Pkt. 15c; 1/8oz. 65c

DIANTHUS SPECIES

These well-known mountain plants are for the sunny border or sunny, exposed places in the rock garden or rock wall. They generally bloom after the spring flowers are over, and some are very fragrant. While having all the outward characteristics of high alpine plants, the varieties we list are as friendly and easily grown as arabis or alyssum. Easily raised from seed, germinating quickly. Plant in good, well-drained soil, containing some lime.

***841 CAESIUS** (Cheddar Pink). Pleasing at all seasons with its tufts of gray, narrow leaves and rose-pink, fringed, spice-scented blooms. Good for a south wall or any dry hot place in the rock garden. From 5 to 10 inches high. Late May to early July.
Pkt. 15c; 1/8oz. 35c; 1/4oz. 50c

842 DELIGHT. Of neat erect habit. Blooms from June to October. Flowers 1/2 inch wide, in shades from the palest pink to the deepest purple and red. Height about 9 inches. Pkt. 25c

843 SUPERBUS, LOVELINESS. Of good branching habit and very free flowering. The shaggy, finely fringed flowers of delicate rosy lilac are highly sweet scented and measure from 1 1/2 to 2 inches across. Height 12 to 15 inches. Pkt. 25c

ANNUAL PINKS. See page 35.

DIGITALIS (Foxglove)

844 SHIRLEY STRAIN. The plants attain a height of 5 to 7 feet, with spikes 3 to 4 feet long, carrying flowers of giant size ranging in color from white to dark rose and handsomely blotched and spotted cream, maroon and chocolate. Pkt. 15c

GAILLARDIA (Blanket-Flower)

The Gaillardias are wonderful for cut flowers, blooming right through until frost and adapting themselves to almost any kind of soil.

845 PORTOLA HYBRIDS. The colors range through shades of bronze-red with golden tips; very robust. Pkt. 20c

846 BURGUNDY. A brilliant coppery scarlet, sometimes yellow tipped. Pkt. 20c

***847 GOBLIN.** This is the first dwarf, compact Gaillardia especially suited for the rock garden. The neat plants reach a height of 12 to 15 inches and are covered with large, showy yellow flowers with deep red zone. Pkt. 20c

***848 GEUM, Double, Mrs. Bradshaw** (Avens). Orange-scarlet flowers bloom the first year. Height 18 inches. Pkt. 15c

***849 Double, Lady Stratheden.** Rich golden yellow flowers, as fine as the popular Mrs. Bradshaw. Height 18 inches. Pkt. 15c

850 Orange Queen. A shade intermediate between Mrs. Bradshaw and Lady Stratheden—a bright orange-scarlet. Pkt. 15c

851 HEMEROCALLIS, Peerless Hybrids (Daylily). Very hardy, thriving in full sun but tolerating shade. Large variety of colors, some with dark shadings and many bicolor, also harmonizing lemon, buff and bronze shades. Seed from large-flowered hybrids, germinating readily. Pkt. 20c

GYPHOPHILA (Babys-Breath)

Free-flowering plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers.

852 PANICULATA, Single. White flowers, fine for bouquets; blooms first year if sown early. Pkt. 15c; 1/4oz. 30c; oz. 90c

853 PANICULATA, Double. Pure white, giving a very large percentage of double flowers. Pkt. 20c

2979 COLLECTION

12 Easily-Grown Hardy Perennials

AGROSTEMMA (Mullein Pink).

COLUMBINE, Long-Spurred.

COREOPSIS, Mayfield Giant.

DELPHINIUM, Hybrid.

DIANTHUS (Pheasant's Eye Pink).

FOXGLOVE, Shirley Strain.

CANTERBURY BELLS, Cup-and-Saucer.

GAILLARDIA.

PLATYCODON (Bellflower).

POPPY, Orientale.

SHASTA DAISY, Conqueror.

SWEET WILLIAM.

One pkt. each of these 12 varieties (Value \$2.05) for \$1.65

854 HIBISCUS, Giant Flowering (Rose Mallow or Marsh Mallow). Showy, ornamental shrub growing to a large size and blooming the first year from spring-sown seed. The flowers often measure 8 to 10 inches across, are gorgeous in color and bloom in great profusion from late July to frost. Mixed colors. Pkt. 15c

HONESTY (Lunaria)

861 BIENNIS ALBA (Saint Peter's Penny). Hardy perennial admired for its silvery seed pods, used for winter bouquets. Beautiful cross-shaped flower. Sow in open ground in May. Protect over winter. Pkt. 10c

IBERIS (Hardy Candytuft)

Low, shrubby, perennial evergreen plants, very valuable for dry sunny places, that are well drained. The plants should be clipped after flowering, in order to keep them compact and slightly. Easily raised from seed.

***862 JUCUNDA.** Pink. Very dwarf. Pkt. 35c

***863 SEMPERVIRENS.** Clusters of china-white blooms, which almost completely cover the dark, shining evergreen foliage. Fine for dry walls and the rock garden. Will grow in a sunny or half-shaded position. May and early June. Height 10 to 12 inches. Pkt. 25c

***864 GIBALTARICA.** Lilac-pink blooms. A less hardy sort, needing protection in winter. It must be given the hottest and driest position. Prefers a light soil. May and June. Height 10 to 12 inches. Pkt. 25c; 1/8oz. 40c

HOLLYHOCK

855 DOUBLE WHITE. An improved strain producing perfect double flowers. Pkt. 15c; 1/8oz. 65c

856 NEWPORT PINK. Pure pink; very double. Pkt. 15c; 1/8oz. 65c

857 DOUBLE SCARLET. Very brilliant. Pkt. 15c; 1/8oz. 65c

858 DOUBLE YELLOW. A bright lemon color. Pkt. 15c; 1/8oz. 65c

859 DOUBLE MIXED. Comprises all shades. Pkt. 15c; 1/8oz. 55c

860 SINGLE MIXED. Pkt. 10c; 1/4oz. 35c

LATHYRUS LATIFOLIUS (Hardy Sweet Pea). Showy, free-flowering hardy perennial climbers for covering old stumps, fences, etc. Continually in bloom; fine for cutting.

865 Mixed. All colors. Pkt. 10c; 1/4oz. 60c

866 LAVENDER, Vera (Lavandula). Well-known, sweet-scented hardy perennials. Should be extensively grown in the mixed border. Height 3 feet. Pkt. 25c

867 LILIUM Regale (Regal Lily). Hardy and excellent for forcing. The flowers are white, slightly suffused pink outside, with beautiful canary-yellow at the center and extending up the trumpet. Delightfully perfumed. Blooms outdoors early in July. Pkt. 15c; 1/8oz. 55c

868 Tenuifolium (Coral Lily). Perfectly hardy. One of the earliest to flower. Grows 24 inches high, with flowers along the stem. Blooms are deep scarlet, with recurved petals of waxy texture. Pkt. 15c

LINUM (Flax)

Showy, free-flowering plants with feathery foliage. Suitable for dry, sunny borders or rock gardens. Will not thrive in heavy, damp soils.

***869 FLAVUM.** Gay yellow flowers in loose clusters. Foliage dark green, forming a dwarf mass in the perennial border. Thrives in a sunny situation in light, rich soil. Pkt. 15c; 1/8oz. 70c

***870 PERENNE.** Bright blue flowers. Height 18 inches. Pkt. 15c

871 RUSSELL LUPINS. Deep yellows, oranges, reds and brilliant bicolors never before seen in Lupins. 50 seeds 25c

***872 MYOSOTIS Palustris semperflorans** (Forget-Me-Not). An everblooming variety, beginning to flower in May and continuing till autumn. Large, clear blue flowers in pretty sprays. Pkt. 15c

***873 NIEREMBERGIA, Purple Robe** (Cup-Flower). Deep blue or violet-blue in color. A half-hardy perennial treated as an annual, blooming in about 15 weeks from sowing. It prefers full sun, sandy loam, and makes a grand border and edging subject. It will remain in bloom over a long period and make a colorful blanket of blue. Very dwarf, cushion-like plant about 6 inches tall. Pkt. 25c

OENOTHERA (Evening Primrose). The Evening Primrose is noted for its heavy scent, given off during the evening hours. Its yellow flowers, attractive during the daytime, seem to reflect the moon at night.

874 Missouriensis. Yellow, cupped flowers 4 inches across, in early summer. Height 6 inches. Pkt. 15c

PANSIES, TUFTED. See Viola, page 46.

875 PENSTEMON gloxinoides, "Sensation" (Beard-Tongue). Gloxinia-like flowers in a very wide range of bright colors, including rose, red, carmine, pink, lilac, purple, etc. **Pkt. 15c**

PETUNIA. See page 38.

877 PHYSALIS Francheti (Chinese Lantern Plant). An ornamental plant forming dense bushes about 2 feet high, producing bright orange-scarlet, lantern-like fruits, which can be cut and dried for winter bouquets. Highly interesting. **Pkt. 15c**

876 PERENNIAL PHLOX, *Decussata*, Mixed. All the new brilliant colors; large flowering. **Pkt. 15c**

ORIENTAL POPPIES (Papaver Orientale)

These are highly decorative. Their huge, brightly colored flowers are borne profusely during May and June. Sow where they are to bloom. Height 3 feet.

880 BEAUTY OF LIVERMERE. Large flowers, crimson with black blotch. **Pkt. 25c**

881 MRS. PERRY. Orange-apricot; very fine. **Pkt. 25c**

882 PRINCESS VICTORIA LOUISE. Delicate salmon-pink. **Pkt. 15c**

883 FELTHAM. Distinct type in various colors but without black blotch at base. **Pkt. 25c**

884 ORIENTALE, SCARLET. Very hardy, producing showy scarlet flowers. **Pkt. 15c**

885 ORIENTALE HYBRIDS. Mixed colors. **Pkt. 15c**

ICELAND POPPIES (Papaver Nudicaule)

Graceful, light green tufts of foliage and large, gaily colored flowers on stems 1 foot tall. Blooms for many months.

886 KELMSCOTT STRAIN. Color range from deep scarlet through delicate pinks and buff to white. **Pkt. 20c**

DOWN THE PRIMROSE PATH PRIMULA (Hardy Primrose)

Splendid for naturalizing near shrubs or shaded nooks and moist places in the rock garden. Primroses are not at home in open herbaceous borders but thrive in sheltered, lightly wooded places, where they may grow among the violets, hepaticas and bloodroot. They establish themselves in damp, shaded positions which are generally most difficult to fill.

***887 VULGARIS**. The old English Primrose with pale yellow flowers. Grows in half shade. Mid-April to June. Height 6 to 9 inches. **Pkt. 25c**

POLYANTHUS (Bunch Primrose)

The Bunch Primroses will thrive in full sun if they have some moisture at the root; if not, they must be given the comfort of partial shade.

***888 GIANT BOUQUET**. Brilliant shades of red, orange and bronze, as well as the richest maroons and yellows, and pure white. **Pkt. 35c**

PLATYCODON (Balloon-Flower or Bellflower)

Easily raised from seed. Begins blooming in August if sown outdoors in April.

878 GRANDIFLORUM. Large, deep blue flowers. **Pkt. 15c**

***879 GRANDIFLORUM MARIESI**. Dwarf species, with broad, thick foliage and large, deep violet-blue flowers on 12-inch stems. **Pkt. 15c**

PYRETHRUM (Painted Daisy)

889 HYBRIDUM. Single and double varieties, mixed. Hardy perennial bearing large, daisy-like flowers ranging in color from white to deep red, with bright yellow centers. Blooms in May and June and again in the fall and is one of the most graceful and long-lasting cut flowers. Height 2 feet. **Pkt. 25c**

PERENNIAL SCABIOSA

890 ISAAC HOUSE STRAIN. Outer edges are ruffled and fringed, and the colors range from very light lavender to dark blue. **Pkt. 25c**

891 COLUMBARIA. A hardy, low-growing perennial with fine, light green foliage. Some of the flowers measure 2½ inches across. A beautiful pink shade. **Pkt. 20c**

892 CAUCASICA, BLUE PERFECTION. Height 3 feet. **Pkt. 20c**

893 CAUCASICA ALBA. A huge, pure white variety. The flowers are 3 to 4 inches across on long stems. **Pkt. 20c**

SWEET WILLIAM (Dianthus Barbatus)

Easily grown, very hardy and free flowering, continuing in bloom for several weeks. The sweet-scented flowers are borne in heads or clusters 3 to 4 inches across, on stiff stems. Useful for cutting. Height 1½ feet.

896 NEWPORT PINK. In color it is what florists call watermelon-pink or salmony rose. **Pkt. 15c**

897 HOLBORN GLORY. The individual flowers and trusses are of extraordinary size, while the range of color, all showing a clear, white eye, is truly superb. **Pkt. 15c**

898 SCARLET BEAUTY. Intense scarlet. **Pkt. 15c**

899 WHITE. Pure white. **Pkt. 15c**

900 DOUBLE MIXED. A splendid strain of this beautiful perennial, comprising a great variety of excellent shades. **Pkt. 15c**

***901 MIDGET SINGLE MIXED**. Alpine Sweet William; uniform habit. The color range is from white, salmon, scarlet to maroon, with most blooms tricolor. Height 3 to 4 inches. **Pkt. 15c**

***902 MIDGET DOUBLE MIXED**. An attractive double form. **Pkt. 25c**

***903 INDIAN CARPET**. 5 to 6 inches high. Large auricula-eyed forms with zones of red, scarlet, pink, and also a great number of selfs, such as crimson, scarlet, pink and white. **Pkt. 15c**

SWEET ROCKET (Evening-Scented Stock). Fragrant flower heads growing 2 to 3 feet high, somewhat resembling perennial phlox. Excellent for borders and partially shaded places.

894 White. **Pkt. 15c**

895 Mixed. **Pkt. 15c**

904 TRITOMA Hybrida (Red Hot Poker or Torch Lily). The introduction of new, continuous-flowering Tritomas has given them a prominent place among hardy bedding plants. It is not generally known that they are readily grown from seed. Many flower the first year if sown early. For immediate results plants are preferable, but raising them from seed is highly interesting. **Pkt. 15c**

VERONICA (Speedwell). Hardy perennials suitable for the border and rock garden. Of easy culture, thriving in any good soil. Cut back all faded flowers to promote new growth and additional blooms.

***905 Spicata**. An elegant border plant growing 1½ feet high and producing long spikes of bright blue flowers in June and July. **Pkt. 15c**

VIOLA CORNUTA (Tufted Pansies). A tufted plant of strong growth, bearing a profusion of faintly scented flowers the size of small Pansies. Valuable for the border or rock garden. Grows in sun or half shade, 5 to 8 inches high. If the plants are sheared several times during the season so that the flowers do not go to seed, they will bloom from late April until frost.

***906 Cornuta Mixed**. A mixture including all shades. **Pkt. 25c**

***907 LARGE-FLOWERING VIOLAS, Mixed**. **Pkt. 35c**

908 WILD FLOWER SEED. A blend of over 100 different wild flowers of the world. It will delight and surprise you. **Pkt. 15c; oz. \$1.00; ¼lb. \$3.75; lb. \$14.00**

BOOKS

THE AFRICAN VIOLET. By Helen Van Pelt Wilson. Complete information. 26 full-page illustrations. **\$2.75, postpaid**

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FARM SEED

Prices on all Farm Seeds are subject to fluctuations. We will be glad to quote you firm prices on request. Orders entrusted to us will be filled at the lowest price on day received.

LESPEDeza, Korean. An annual legume, ★which under favorable conditions will reseed itself. It is best adapted to thin or acid soil. 15 to 25 lbs. usually sown per acre from February to April 15. **Sericea** is a perennial Lespedeza. Scarified seed can be sown at the rate of 10 to 12 lbs. per acre in spring after danger of frost and as late as April 15.

RED CLOVER (*Trifolium pratense*). Too well known to need extended description. Best sown in the spring, and requires 10 to 12 lbs. per acre alone or 5 to 6 lbs. per acre if in mixture with grasses.

MAMMOTH OR SAPLING CLOVER. Similar to Red Clover but of larger growth and blooms three weeks later; hence, more valuable for sowing with Timothy. It also forms better aftermath than Red Clover. Requires same quantity of seed per acre as Red Clover.

RED CLOVER, Kenland, Cumberland and Midland. Winter hardy; excellent growth habit, resistant to anthracnose disease. Kenland is adapted to the southern part of the Red Clover belt where anthracnose is a serious disease. Cumberland is adapted to areas similar to southern Ohio and southward; Midland north of these areas. These new strains are highly recommended.

ALSIKE CLOVER (*Trifolium hybridum*). One of the best Clovers for sowing with Timothy; they mature at the same time. Blossoms flesh color. It is very hardy and will do well on thin or poorly drained soils, making very satisfactory pasturage. It is also valuable for hay. If sown alone requires 5 to 8 lbs. per acre or in mixture 2 to 4 lbs. per acre.

CRIMSON CLOVER (*Trifolium incarnatum*). An annual for turning under as a green manure crop or as a winter cover crop. Sown in July or August, also early spring, at rate of 15 to 20 lbs. per acre. It should be cut just before bloom stage for hay.

LADINO CLOVER. A mammoth perennial ★type of White Clover spreading by vigorous horizontal stems. Plant reaches 12 to 15 inches in height under favorable conditions. Valuable for pasture for all livestock and widely used for enriching a mixture of other grasses. Sow 1 to 2 lbs. alone or $\frac{1}{2}$ to 1 lb. per acre in mixtures. Excellent for hog and chicken pasture.

BIRDSFOOT TREFOIL. A low-growing perennial legume for pastures. Starts slowly but has long season. Inoculated, it thrives on ground too poor for Alfalfa or Clover. It takes several years to establish but is quite permanent.

SMOOTH BROME GRASS. A tall perennial doing well on loose, dry soil. Used with Alfalfa to produce hay and pasture during hot, dry seasons. Sow 15 to 20 lbs. per acre.

REED CANARY GRASS. An excellent ★hay crop for moist or swampy land. Sow 6 to 8 lbs. per acre with 2 lbs. Alsike to insure uniform stand.

SWEET CLOVER, Common White and Yellow Blossom. Valuable for use on poorer soils both as a crop and for improving the soil.

Hubam. An annual white variety desirable when a catch crop is wanted especially when the field is to be fall plowed.

NEW RECOMMENDED VARIETIES OF SWEET CLOVER

Evergreen. A white-blossomed biennial that is later in maturing than common White Sweet Clover. Grows vigorously and is highly regarded as a pasture and soil-improvement crop. Blooms over a long period, making an excellent bee pasture.

Madrid. A biennial yellow-blossomed variety that is leafy and fine stemmed. Matures early and produces an abundance of seed. It reaches a height of about 5 feet. An excellent soil-improvement and pasture crop.

ALFALFA. Every farm should have at least some Alfalfa. Its feeding value is unexcelled. Alfalfa grows best on good land, well limed and containing available plant foods, particularly phosphoric acid. Sow 12 to 15 lbs. per acre alone or 2 to 5 lbs. in mixtures. Two new varieties, **Ranger** and **Buffalo**, adapted to central and northern United States, have been developed for their resistance to a bacterial wilt which has been taking heavy tolls in recent years in second and third-year stands and older.

ATLANTIC is a new vigorous, high-yielding variety adapted to central and eastern states. It is highly resistant to leaf-spot and other foliar diseases which had made Alfalfa growing unprofitable in many sections.

McCullough's "Farm and Grass Seed Manual"

Handy 128-page reference book including cultural directions, detailed descriptions, and 85 illustrations.

To secure your copy, send \$1.00 to cover cost of printing, handling and postage.

FARM SEEDS, continued

McCULLOUGH'S PERMANENT PASTURE MIXTURES. Formulated over a period of years, these represent a composite of recommendations by our own and neighboring State Agricultural Extension Services. Fall seedings are without legumes, which can be sown the following spring if desired.

No. 1. For general conditions on **GOOD**, well-drained soil.

No. 2. For well-drained soils of **MEDIUM** or **LOW** fertility.

No. 3. For **WET** or **POORLY DRAINED** soil.

No. 4. For badly eroded areas for **EROSION CONTROL**.

Rate of seeding, 15 to 20 lbs. per acre. Write for full descriptive circular giving formula of each mixture.

OATS, Clinton 59, Columbia and Northern White. Our Oats are carefully selected and well re-cleaned. Do not confuse them with ordinary feed Oats. Sow $1\frac{1}{2}$ to $2\frac{1}{2}$ bus. per acre.

OATS, Winter Turf. For fall and spring sowing. Grows 4 to 5 feet high; straw is very palatable for stock. $1\frac{1}{2}$ to 2 bus. per acre.

VETCH, Hairy or Sand (*Vicia villosa*) Winter annual, adapted to sandy soil and will do much to build up any soil, especially when inoculated. Withstands cold weather. Should be sown from late August to middle of September at the rate of 15 to 25 lbs. per acre. Can be sown with rye.

VETCH, Spring (*Vicia sativa*). Used with Oats for producing spring hay.

SUNFLOWER, Mammoth Russian. The best variety for the farmer. Drill in seed at about 8 to 10 lbs. to acre. Much relished by poultry and horses. Current prices on request.

BROOM CORN. We carry varieties that are known to produce the finest quality straw and command the highest prices. Sow 4 to 5 lbs. per acre in drills, rows 3 feet apart. Thin out the stalks to about 70 to the rod. Cultivate same as Corn. Cut when seed is in the milk.

MILLET, True Tennessee Cultivated. (Round Seed.) This Millet withstands drought better than all other varieties. It is used as a summer hay crop; particularly adapted to rich or bottom soils.

MILLET, Home Grown. Produces a large head. A very desirable feature is its earliness; the foliage is also very heavy and the leaves broad.

MILLET, Hungarian. Specially adapted to rich or alluvial soil. It makes a finer quality of hay than Millet on very rich soil, for it does not grow so coarse.

BUCKWHEAT. A splendid crop for poor ★land. Largely used for bees. Sow in June, July or August at rate of $\frac{3}{4}$ to 1 bus. per acre broadcast, covering with a smoothing harrow. It does not mature grain until the cool nights; hence, too early sowing is not desirable.

INOCULATION OF FIELD SEEDS is always good insurance. Ask for proper inoculation. We can supply fresh, economical, easily applied cultures.

GARDEN SIZE—Peas, Beans, Sweet Peas, Lupines, Lima Beans and Edible Soybeans.
Enough for 8 lbs. seed. 15c

KAFFIR CORN. Foliage and stalks do not contain saccharine matter and are therefore, not so valuable for feeding, but the enormous yield of grain makes it very profitable. The grain, containing a high percentage of starch, is very largely used for poultry and stock feeding.

SOY BEANS. A leading crop, valuable not ★only as a grain for milling, but for hay and forage. They are also excellent for soil improvement when plowed under as a green manure crop. Inoculation of Soy Beans is beneficial regardless of purpose of crop. Sow $1\frac{1}{2}$ bus. per acre drilled solid or 45 lbs. in rows for cultivation. The following varieties are some of the best for this section. Write for variety descriptions and current prices. **Best for Hay Crop: Wilson Black, Kingwa and Virginia Brown. Yellow Varieties: Monroe, Lincoln, Richland and Hawkeye.**

CANADA FIELD PEAS AND COWPEAS. Good soil-improving crops.

RYE, Northern and Balbo. Our Rye is carefully selected stock, or well re-cleaned and tested. Do not confuse it with ordinary milling Rye.

BARLEY. Needs rich soil, lighter than that adapted to Wheat. It should be cut before fully ripe if for hay, as it is then of better quality and less liable to shell. Sow $1\frac{1}{2}$ to 2 bus. if drilled; 2 to $2\frac{1}{2}$ bus. broadcast. (48 lbs. per bus.) We usually carry the following spring varieties:

BARLEY, Oderbrucker Bearded. Yields heavily. Most commonly used in this section.

BARLEY, Spartan Bearded. Smooth or barbed beard.

BARLEY, VELVET or Barbless. Smooth or barbed beard.

BARLEY, Winter or Fall Bearded, Kentucky No. 1. Decidedly superior to any other variety for fall sowing in this area. It is among the most winter hardy and is highest yielding variety. Has fairly good straw.

WHEAT, Seneca. A smooth variety adapted to the same areas as Thorne. It tests higher in bushel weight and slightly outyields Thorne. Other recommended varieties: **Butler**, a bearded variety, and **Vigo**, a smooth type.

DWARF ESSEX RAPE. Makes excellent ★pasture for both sheep and hogs and is a fine conditioner for all livestock except milk cows. Best results are obtained by planting in two separate fields, pasturing alternately ten days each. Plant any time, early spring to midsummer. Sow 3 lbs. per acre in drills; 6 lbs. broadcast.

SWEET SUDAN. A sweet, juicy, highly ★palatable improved type of Sudan Grass. It is later in maturity and produces more vegetative growth, which remains green longer. Same seeding rate as Sudan.

SUDAN GRASS. Perhaps the most valuable ★grass catch crop in the Middle West, being used for hay, pasture and sometimes silage. It is adapted to practically all soils. If seeded about May 15, it will yield several cuttings of hay, although it is often planted as late as mid-July. Sow 30 lbs. broadcast or 10 to 15 lbs. per acre in drills, rows $2\frac{1}{2}$ to 3 feet apart.

CANE SEED FOR FORAGE ONLY.

CERTIFIED WILLIAMS SYRUP CANE.

This variety of Sweet Sorghum is characterized by an open head with lax branches. Tall stalk with light green leaves. Good yielder, highly resistant to rust, and produces high quality of syrup.

ATLAS SORGO. A forage and grain crop, ★outstanding for its heavy yield. Has a juicy, sweet, leafy stalk, which grows 7 to 10 feet and requires 120 to 130 days to mature. Usually sown 5 to 10 lbs. per acre.

CERTIFIED CORN HYBRIDS McCullough's Buckeye Brand

Hybrids adapted to your locality insuring superior yields, high grain quality, excellent standability, disease and insect resistance. Ask for descriptive circular.

For early maturity we recommend:

Iowa 939	Ohio W36
Iowa 4059	Indiana 251
K 24	

For medium early maturity we recommend:
Ohio C38.

For late maturity, the best hybrids for this section are:

White Hybrids: US 13	Ky 103
Ky 203	Indiana 750

When selecting Hybrid Seed Corn it is well to remember there is an advantage to planting two or more different hybrids on one farm. Soil productivity, rainfall, temperature and insect damage, which vary from field to field and from year to year, react differently on the different hybrids. By planting two or more hybrids to offset these varied conditions, a consistently higher yield will be maintained.

OPEN-POLLINATED FIELD CORN McCullough's Buckeye Brand

Carefully selected, tested and graded. Ask for current prices, stating variety in which you are interested.

Yellow Varieties

Woodburn Yellow Dent. An early-maturing variety.

Reid's Yellow Dent. Late maturity.

White Varieties

Johnson County White Dent. Late maturity.

Hickory King. Extensively used for green table Corn or roasting ears.

Eureka White Ensilage. Excellent for silage purposes.

INCREASE YIELDS! TREAT WITH ARASAN, SEMESAN JR. OR SPERGON FOR BRUSH KILLER PRICES REFER TO Page 50

FERTILIZERS for LAWN and GARDEN

SACCO PLANT FOOD MAKES THINGS GROW

4-12-4

The Complete All-Purpose Plant Food
Famous for Results

2½ lbs.	\$0.25
5 lbs. ....	.50
10 lbs. ....	.90
25 lbs.	1.50
60 lbs.	2.75
100 lbs.	3.95



SACCO G & F FERTILIZER

10-6-4

A Golf Course Formula for Fine Lawns

25 lbs.	\$1.95
100 lbs.	6.00

ACTIVO. Quickly and cheaply makes humus form garden waste.

No. 2. Treats 425 lbs. of waste.	\$1.00
No. 7. Treats 1350 lbs. of waste.	2.00

ADCO

Mix Adco with leaves, weeds, vines, clippings, cuttings, straw, cornstalks, etc., and turn them into rich plant food. 5 lbs. \$1.25; 20 lbs. \$3.15; 100 lbs. \$15.00.

More Plant Feeding Value With AGRICO



PER POUND AND PER DOLLAR

Different plants require different plant food diets; that's why AGRICO comes in two special-purpose grades for the home user—one special AGRICO for Lawns, Trees and Shrubs; and another special AGRICO for Vegetable and Flower Gardens.

AGRICO for LAWNs, TREES and SHRUBS

6-10-4

5 lbs.	\$0.45
10 lbs. ....	.80
25 lbs.	1.60
50 lbs.	2.65
100 lbs.	4.25

AGRICO for GARDENS

5-10-5

5 lbs.	\$0.45
10 lbs. ....	.80
25 lbs.	1.60
50 lbs.	2.40
100 lbs.	4.25

**AGRICO—the Nation's Leading
Fertilizer**

ALUMINUM SULPHATE. Used in creating acid soils in which azaleas, rhododendrons, and similar plants are grown. Use 1 lbs. to 10 sq. ft. of surface. **Lb. 30c; 5 lbs. 80c; 10 lbs. \$1.35; 25 lbs. \$2.90.**

BLOOD MEAL. A quickly available, yet long-lasting organic fertilizer. **5 lbs. 85c; 10 lbs. \$1.50; 25 lbs. \$3.00.**

STEAMED BONEMEAL

The fertilizer for all purposes; safe and effective. Especially good for use in the rose garden, on lawns and on flowering shrubs.

2 lbs.	\$0.35	25 lbs.	\$3.00
5 lbs. ....	.75	100 lbs.	7.75
10 lbs.	1.35		

HOFFMANN'S RAW BONEMEAL

Analysis: Nitrogen 3.70%, total phosphoric acid 20%. **32 ozs. 35c; 5 lbs. 69c.**

BULB-FOOD

5-6-15

A plant food made especially for bulbs. **5 lbs. 85c; 10 lbs. \$1.35; 25 lbs. \$3.00.**

CATTLE MANURE

A strictly organic fertilizer. An ideal soil builder and mulch, easy to use as a top dressing. When applied to lawns of poor soil texture it has the decided advantage of binding sandy soil and breaking up a clayey condition. Ideal for roses. Broadcast at the rate of 100 lbs. per 1000 sq. ft.

28-oz. pkg.	\$0.29	20-lb. carton.	\$1.69
3½-lb. pkg. ....	.49	50-lb. bag.	2.25

HYGRO

13-26-13

A highly soluble plant food containing 13% nitrogen, 26% phosphoric acid and 13% potash, to which growth hormones and other plant nutrients are added. **3-oz. bottle 30c; 20-oz. bottle \$1.00; 2 lbs. \$1.25; 10-lb. drum \$4.50.**

HOFFMANN'S HYPER HUMUS

Use one part to two parts good garden soil to make an ideal potting soil for house plants, rootings, vegetables. **32 ozs. 29c; 3½-lb. bag 35c; 25-lb. bag \$1.69.**

HYPONEX PLANT FOOD

7-6-19

Can be used in dry or liquid form. Teaspoonful makes 1 gal. **3-oz. tin 25c; 7 ozs. 50c; 1b. \$1.00; 10 lbs. \$8.00.**

LIME

Approved by agricultural authorities for gardening. Fast in action. Also used for mixing with spray materials. **42-oz. pkg. 29c; 5-lb. bag 39c; 50-lb. bag Agricultural Limestone, \$1.25.**

MILORGANITE

6-2-0

An all-organic fertilizer for lawns, trees, shrubs and gardens. **25 lbs. \$1.40; 50 lbs. \$2.30; 100 lbs. \$4.15.**

MURIATE OF POTASH. 5 lbs. 90c; 10 lbs. \$1.50; 25 lbs. \$3.00.

NITRATE OF SODA. 5 lbs. 90c; 10 lbs. \$1.50; 25 lbs. \$3.00.

FINE HORTICULTURAL PEAT MOSS,

IMPORTED CANADIAN

The best-known and most widely used product for conditioning soil and for mulching. Except for old-fashioned barnyard manure, no other product so nearly fills the need for organic matter in soil. The addition of substantial quantities to the garden will add to the soil's ability to hold moisture, will aerate the ground and will improve the texture of clay soils. A full bale will cover 250 sq. ft. approximately 1 inch deep. **Not pre-paid except locally (terms on page 61).** 16-oz. pkg. 29c; 1½-bu. carton \$1.89; 2-bus. carton \$1.95; full bale \$5.75.

PLANTABBS

A fertilizer and stimulant in tablet form, made especially for potted plants. Now contains Vitamin B-1. Package of 30 tablets 25c; 75 tablets 50c; 200 tablets \$1.00; 1000 tablets \$3.50.

PLANT MARVEL

12-31-14

A balanced plant food. Highly concentrated. Trial size 25c; ½lb. 75c; 1b. \$1.25.

RHODO-AZALEA FOOD

3-20-3

An acid fertilizer designed especially for acid-loving plants such as rhododendrons, azaleas, etc. **5-lb. bag 85c; 10-lb. bag \$1.35; 25 lbs. \$3.00.**

ROSE-FOOD

G & O. 7-8-5. An all-organic plant food made especially for roses. Safe for continuous feeding. **Lb. 35c; 5 lbs. 85c; 10 lbs. \$1.35; 25 lbs. \$3.00; 100 lbs. \$9.00.**

TRI-GEN ROSE FOOD. 5-10-5. A well-balanced and complete organic-inorganic fertilizer which will help you have a rich, luxuriant and bountiful rose garden. Use about 3 lbs. per 100 sq. ft. **5 lbs. \$1.00; 10 lbs. \$1.60; 25 lbs. \$3.00.**

HOFFMANN'S ROSE FOOD. 32 ozs. 35c; 5 lbs. 69c.

SHEEP MANURE

Contains the Same Elements as Stable Manure Dried—Pulverized

Provides valuable nitrogen, an abundance of humus and the essential plant-food elements needed to make all plants thrive. Safe, weedless, economical.

The Flower and Vegetable Garden is particularly benefited by the use of Pulverized Sheep Manure. It should be spread at the rate of 100 lbs. to 1000 sq. ft. or 2000 to 3000 lbs. to the acre, applied after plowing just before the final harrowing.

Grass. Use 100 lbs. per 1000 sq. ft. Scatter broadcast over the old lawn or rake thoroughly into the top soil a day or two before seeding a new one.

Florists and Gardeners. In potting soil, one part Sheep Manure to six parts soil is the usual proportion. For liquid use 1 lb. of the manure to 5 gals. of water. In carnation, chrysanthemum or rose houses it is often used for a light top dressing.

28-oz. pkg.	\$0.29	50-lb. bag.	\$2.25
5-lb. bag. ....	.45	100-lb. bag.	3.75
10-lb. bag. ....	.75	500 lbs.	17.50
25-lb. bag.	1.40	1000 lbs.	34.00

SULPHATE OF AMMONIA. 5 lbs. 90c; 10 lbs. \$1.50; 25 lbs. \$3.00.



PLUS WEED-KILLING 2, 4-D

The new double-acting Wedo is a scientific balanced formula of lawn-feeding elements plus weed-killing 2, 4-D. At last you can enjoy the beauty of a velvety green, weed-free lawn. One application **feeds grasses and kills weeds.** Clean, granular. Simply apply with lawn spreader over your entire lawn area. 25 lbs. will cover a lawn 40 ft. by 40 ft. Packed in four convenient sizes. **7½ lbs. \$1.00; 25 lbs. \$2.75; 50 lbs. \$4.95; 100 lbs. \$7.95.**

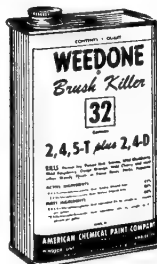


NEW IMPROVED WEED-

ONE. Contains powerful 2, 4, 5-T and 2, 4-D, the two most effective chemicals for killing lawn weeds, poison ivy, poison oak, plantain, honey-suckle, dandelion and over 90 other weeds and woody plants. Non-poisonous to animals or humans. Won't hurt ordinary lawns. **8-oz. can \$1.00; qt. \$2.75; gal. \$6.95.**

WEEDONE 32 BRUSH KILLER. Weedone 2, 4, 5-T and 2,4-D Brush Killer has been especially designed to kill woody brush and stumps. Works wonders on black locust, poison ivy, poison oak, horse-chestnut, willow, virginia creeper, and many other types of brush. 1 to 1½ gals. should treat about 1 acre. **Qt. \$4.00; gal. \$8.75.**

Larger quantities quoted on request.



SUPERPHOSPHATE (18% Normal Phosphate). 5 lbs. 35c; 10 lbs. 60c; 25 lbs. \$1.25; 80 lbs. \$2.95.

TERRA-LITE Brand VERMICULITE

Terra-Lite is a brand of Vermiculite especially developed for horticulture. Used for seed germination, rooting cuttings, soil lightening, drainage and bulb or tuber storage. **8 ozs. 29c; 4-qt. bag 39c; ½-bu. bag 85c; 2-bu. bag \$1.85.**

TOBACCO DUST. See page 55.

TOBACCO STEMS. Used for fumigating plants to kill insects, and as a mulch for roses, asters, lettuce, etc. **Bale of about 100 lbs. \$2.25.**

VERTAGREEN

5-10-5

**PLANT FOOD FOR
LAWNS, FLOWERS,
VEGETABLES, SHRUBS**

Lb.	\$0.15
5 lbs. ....	.50
10 lbs. ....	.90
25 lbs.	1.60
50 lbs.	2.65
100 lbs.	4.25



WEEDONE CRABGRASS



KILLER. A new herbicide containing potassium cyanate for eliminating crabgrass and chickweed from lawns without killing clover, blue grass, fescue or other deep-rooted perennial grasses. Easy and economical to use; 5 ozs. in 7 gals. of water treats 1000 sq. ft. of crabgrass in seedling stage. Use double dosage on chickweed or mature crabgrass. Has no toxic effect on soil. Relatively non-poisonous to man. **5-oz. can \$1.00; 20-oz. can \$3.00; 5 lbs. \$8.85.**

CRAB-NOT. Standard Formula. Contains potassium cyanate. 4-oz. can treats about 1400 sq. ft. **4 ozs. \$1.00; 16 ozs. \$2.95; 6 lbs. \$10.95.**

CRAB-NOT. Special Formula. Contains both 2, 4-D and potassium cyanate for control of broadleaf weeds and crabgrass in one treatment. **4 ozs. \$1.25; 16 ozs. \$3.50; 6 lbs. \$12.50.**

P. C. 80 CRABGRASS KILLER. Contains 80% active potassium cyanate. 1 lb. will treat about 2400 to 4800 sq. ft. of crabgrass. **5 ozs. \$1.00; lb. \$2.75; 6 lbs. \$10.50.**

DU PONT'S 2, 4-D WEED KILLER. Powder form for weed control in fields, pastures and lawns. 1 lb. makes 100 gals. **1-lb. bottle \$1.50; 4-lb. bottle \$4.75; 25-lb. drum \$22.00.**

AMMATE WEED KILLER.

Effective for control of poison ivy, ragweed, Canada thistle, dandelion, plantain and many other weeds. Use ½ to 1 lb. to gal. of water, 1 gal. solution to 100 sq. ft. of infested area. Non-selective in action. **2-lb. jar 85c; 6-lb. bottle \$2.25.** Larger quantities quoted on request.



VIGORO

**COMPLETE PLANT FOOD FOR LAWNS,
TREES, SHRUBS, FLOWERS AND
VEGETABLES**

6-10-4	
Lb.	\$0.15
5 lbs. ....	.50
10 lbs. ....	.90
25 lbs.	\$1.60
50 lbs.	2.65
100 lbs.	4.25

TAT C-LECT. A selective crabgrass killer.

Kills young seedlings, mature plants. Retards germination; safe on common lawn grass. **8-oz. bottle makes 4 gals., sufficient for 400 sq. ft. 8-oz. bottle 85c; 16-oz. bottle \$1.50.**



END-O-WEED. Spray weeds away! Kills over 100 lawn weeds—roots, stems and all—without harming ordinary grass or soil. ½ pt. treats 2000 sq. ft. of lawn. **½ pt. 98c; qt. \$2.69.**

SELTOX CRABGRASS KILLER. (Contains PMAS.) A selective, mercury type, crabgrass killer. 16-oz. size will treat about 1500 sq. ft. **8 ozs. \$1.00; 16 ozs. \$1.50; 32 ozs. \$2.50; ½ gal. \$4.75.**

ACME WEED KILLER. A highly toxic, non-selective plant killer. Dilute one to 50 or one to 100. **Pt. 65c; qt. 85c; gal. \$2.20; 5 gals. \$8.00.**

G & O WEED AND POISON IVY KILLER. Dilute 1 qt. to 50 qts. water to treat 200 sq. ft. **Qt. 70c; gal. \$1.90; 5 gals. \$8.75.**

HAMMOND'S WEED KILLER. Weeds, poison ivy and all vegetation are easily destroyed with this highly concentrated, easy-to-use material. Dilute with 40 parts of water. Apply with sprinkling can. **Qt. 70c; gal. \$2.00; 5 gals. \$9.00.** Larger quantities on request.

WEED-NO-MORE. Kills weeds in lawns. **8-oz. bottle (covers 1400 sq. ft.) \$1.00; qt. (treats 6400 sq. ft.) \$2.98.**

SODIUM ARSENITE. For the control of crabgrass and other weeds. **Gal. \$3.00.**

ZOTOX CRABGRASS KILLER. Will also control chickweed. 16-oz. bottle treats up to 2000 sq. ft. **8 ozs. \$1.00; 16 ozs. \$1.50; 32 ozs. \$2.50; 5 lbs. \$4.50.**

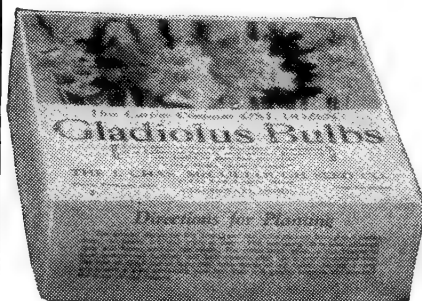
GLADIOLUS—"Everybody's Orchid"

From planting time, blooms appear in 70 to 90 days.
Not less than 6 bulbs at the dozen rate, or 25 at the 100 rate.

SPECIAL

GLADIOLUS COLLECTION

Twelve No. 1 Gladiolus
Bulbs



One each of 12 choice, distinct,
different varieties. Cultural di-
rections on each package.

Per Box **65c**

Blue and Purple

BADGER BEAUTY. Lovely light mellow lavender with a creamy white throat. A tall graceful spike, not too many open at a time, but a good cutter and rugged grower. **\$1.00 per doz.; \$7.00 per 100**

BLUE BEAUTY. Early midseason. Medium blue with edges of petals overlaid violet-blue. Throat somewhat lighter on upper petals, darker on lower, with a small white mark. Large, wide-open florets on a long, strong spike. **\$1.10 per doz.; \$7.50 per 100**

ELIZABETH THE QUEEN. Midseason. Beautiful clear lavender-mauve with darker lines in the throat; ruffled and fine form. When well grown it is a fine exhibition variety. **\$1.10 per doz.; \$7.50 per 100**

KING LEAR. Very early. Clear deep red-dish purple; silver line on edge of petals. Large, beautifully ruffled blooms on a tall, strong plant. **90c per doz.; \$6.50 per 100.**

Bicolor

LANTANA. Early. Orange, shading through orange-salmon with a golden throat. A very beautiful and distinctive, bright vivid color. Opens seven to nine well-placed blooms on a stem. **\$1.10 per doz.; \$7.50 per 100**

MARGARET BEATON. Pure snow-white with small orange-scarlet blotch in the throat. Six or more large, well-placed blooms open on a long flower head. Strong grower and good propagator. **75c per doz.; \$5.50 per 100**

Yellow

LEADING LADY. Cream sport of Picardy. **\$1.15 per doz.; \$8.00 per 100**

OREGON GOLD. Midseason. Light creamy yellow, large, somewhat ruffled blooms on a very tall plant. Considered one of the best yellows. **\$1.10 per doz.; \$7.50 per 100**

SPOTLIGHT. Large, ruffled, deep yellow, with small red blotch in throat. Good keeper. **\$1.15 per doz.; \$8.00 per 100**

YELLOW HERALD. An easy grower of a fine shade of picric-yellow. Strong spikes of flowers that have good substance. A good ruffled variety. **95c per doz.; \$6.50 per 100**

Red

ALGONQUIN. Early. Brilliant glowing scarlet. Large, wide-open, well-placed, ruffled blooms on a tall, straight spike. Fine for exhibition. **\$1.00 per doz.; \$7.00 per 100**

HAWKEYE RED. Tall, vigorous grower producing a fine spike of bloom. This Glad rates tops among the reds. **\$1.00 per doz.; \$8.00 per 100**

RED CHARM. Tall dark red. **\$1.10 per doz.; \$9.00 per 100**

VALERIA. Bright light red of a distinctive shade. Opens five to eight large, nicely ruffled blooms on a healthy, rugged stem. Considered one of the very best cut-flower varieties. **\$1.10 per doz.; \$7.50 per 100**

Pink

BURMA. Very deep rose with heavily ruffled bloom. **\$1.30 per doz.; \$9.00 per 100**

CHAMOUNY. Rich light cerise-rose; perfectly placed florets on tall spike. **95c per doz.; \$6.50 per 100**

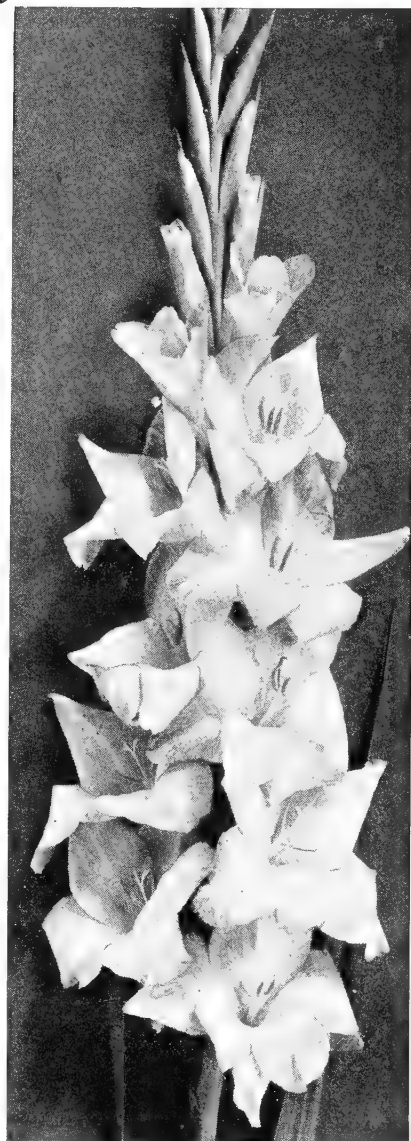
ETHEL CAVE-COLE. Pure light pink, sometimes flecked. Very strong, husky grower. Makes a large spike with nine to ten large, well-placed blooms. Good for exhibition, commercial use or home garden. **85c per doz.; \$6.00 per 100**

GENERAL EISENHOWER. A brilliant begonia-rose shade. Extremely large blooms on a very tall spike. This huge new Glad from Holland for floral display is in a class by itself. **\$1.60 per doz.; \$11.00 per 100**

MISS WISCONSIN. Rich brilliant rose-pink. Opens up to eight blooms on a spike. In a class by itself as to color. **\$1.60 per doz.; \$11.00 per 100**

PICARDY SUPREME. Truly immense spikes carry as many as eight huge open flowers. Color is rich salmon-pink. A sensational Glad. **\$1.10 per doz.; \$8.00 per 100**

MCCULLOUGH'S SUPER MIXTURE. Large bulbs. Brilliant colors. **60c per doz.; \$4.75 per 100**



White

MAID OF ORLEANS. Milky white with cream throat. Tall, sturdy grower with eight or more well-placed flowers open at a time. **75c per doz.; \$5.50 per 100**

SILVER WINGS. A giant white sport of Picardy with all the fine qualities of that variety. **\$1.15 per doz.; \$8.00 per 100**

VREDENBURG. A large, pure white variety of good substance. Fine spikes, straight and strong. **90c per doz.; \$6.50 per 100**

CONTROL INSECTS WITH SPERGON GLADIOLUS DUST

A mixture of Spergon and DDT. Start using when plants are 6 inches high and continue to blooming time.

Oz. \$0.25
Lb. 1.50

SUMMER-FLOWERING BULBS

ACIDANTHERA MURIELIAE (Sweet-Scented Gladiolus)

See Page 53 for color illustration

A valuable recent introduction from western Abyssinia, which has been very successfully propagated in Holland and can now be offered at popular prices in quantity. Corms, foliage and flowers strongly resemble gladiolus. The showy flowers are 3 to 4 inches across, pure white with star-shaped crimson-maroon blotches in the throat, and emit a delightful fragrance. Height $2\frac{1}{2}$ to 3 feet. Corms planted in May or June bloom in August and September. Harvested and stored like gladiolus, the corms are easily kept over winter.

Top size, \$1.50 per doz.; \$11.00 per 100

BEGONIA

Tuberous-Rooted

If early flowering is desired, start tubers in January or February in a box or flat. Cover the bottom with 1 inch of sphagnum moss or peat moss; place the bulbs on the moss about 3 inches apart and barely cover them with soil. Keep moist, but not too wet, and in a warm, well-lighted place until 3 or 4 inches of growth develops. Then plant in pots or permanent position. Bulbs may also be planted outdoors, about 8 inches apart, about the middle of May. Select a moist, shaded situation under trees in a light, loamy soil. Good drainage is essential.

DOUBLE CAMELLIA TYPE

Pink White Yellow Orange Red

GIANT SINGLE CRESTED TYPE

White Pink Yellow Red

DOUBLE HANGING-BASKET TYPE

White Pink Yellow Red

All Tuberous-Rooted Begonias

Largest bulbs, 2 in. and up, 35c each; \$3.50 per doz.; \$25.00 per 100.

CANNAS

Dormant Roots

Cannas do well in full sun and respond quickly to fertilizing with well-rotted manure. Bloom from early summer till frost.

CITY OF PORTLAND. 4 feet. Rich deep pink.

KING HUMBERT. $4\frac{1}{2}$ feet. Scarlet flowers. Bronze foliage.

THE PRESIDENT. 4 feet. A rich glowing scarlet. Green foliage.

YELLOW KING HUMBERT. $4\frac{1}{2}$ to 5 feet. Flowers yellow, spotted red. Green foliage.

EUREKA. 4 feet. White flowers with green foliage.

WYOMING. 4 to 5 feet. Orange flower with bronze foliage.

Selected roots:

15c each; \$1.50 per doz.; \$10.00 per 100

CALADIUM ESCULENTUM

ELEPHANT'S EAR. Effective plants for beds. Large, rich green leaves. Plant outdoors from May 1 on. Mammoth bulbs, 35c each; \$3.50 per doz.

FANCY-LEAVED CALADIUMS

Few summer foliage plants equal the Fancy-Leaved Caladiums with their gorgeous yet soft-colored leaves. Being of a tropical nature, they like a warm temperature. They do very well outdoors during the summer if planted in a shady place. Culture similar to the tuberous-rooted begonia. 35c each; \$3.50 per doz.

GLOXINIAS

Gorgeous plants for either conservatory or garden. They prefer a moist soil and a shady situation. Bulbs may be started as early as January or February but should not be set outdoors until May 10. 40c each; \$4.40 per doz.

HYACINTHUS

(Summer-Hyacinth)

CANDICANS. Flowers are pure white and pendulous, growing about 3 to 4 feet high. 20c each; \$2.00 per doz.; \$14.00 per 100.

MONTBRETIAS

Montbretias will bloom from July until frost. They are easily grown and make excellent cut flowers. Color range yellow, salmon, orange and scarlet. Bulbs should be planted outdoors during April and May. Culture same as gladiolus. Large flowering mixed. 15c each; \$1.50 per doz.; \$11.00 per 100.

OXALIS

Useful little plants, very effective in masses, edging or for pots or hanging baskets indoors. 50c per doz.; 25 for 95c; \$3.50 per 100.

TIGRIDIA

(Mexican Shell-Flower)

Gorgeously colored flowers in a wide range of colors. Culture same as gladiolus. Plant outdoors about May 1. \$1.50 per doz.; \$11.00 per 100.

DOUBLE TUBEROSE

EXCELSIOR DWARF PEARL. Easily recognized by its fragrance and beautiful spikes of double white flowers, fine for cutting. Plant outdoors in May or June. Jumbo bulbs, 20c each; \$2.00 per doz. Large bulbs, 15c each; \$1.50 per doz.

AMARYLLIS

Planted in a pot in winter, they bloom about seven to ten weeks later. Color range, from white, red, pink with varied markings. **GIANT CALIFORNIA MIXED HYBRIDS.** All colors mixed. Size 3 inches in diameter. 75c each; \$7.50 per doz.

PERENNIAL VEGETABLE ROOTS AND PLANTS

Cultural Directions For Either Fall or Spring Planting

ASPARAGUS—Prepare ground by deep plowing or spading. Set plants 12 to 18 inches apart each way, 3 inches deep, with roots well spread out. Every fall mulch the bed with well-rotted manure, ashes and salt. During the growing season dust the foliage several times with a mixture of 85% sulphur and 15% arsenate of lead to kill the slugs and to prevent rust.

RHUBARB—Prepare the soil as for asparagus. Set the plants with crown or eye 2 inches under ground. Plant 2 to 3 feet apart each way. Mulch in winter. Give clean cultivation the same as for any other crop. **HORSE RADISH**—Thrives best in deep, moist, fertile soil. Set the roots 12 to 15 inches apart either horizontally or upright and in furrows 3 to $3\frac{1}{2}$ feet apart. Give clean cultivation. Roots are ready to dig in the fall.

ASPARAGUS

PARADISE. Sensationally new, early-maturing variety of superior quality. Normal crop ONE YEAR EARLIER than other varieties and produces more heavily throughout its life. Large, crisp, tender stalks with exceptionally fine, mild flavor. Only six or eight stalks required to make a pound. Ideally suited for freezing; retains its superb taste. Strongly rust resistant. An excellent variety for home gardens, commercial growers and shippers. 2-yr.-old roots, \$1.40 per doz.; 25 for \$2.25; \$5.50 per 100, postpaid.

MARY WASHINGTON. The finest standard variety. Makes a heavy growth, ready to cut early and continues over a long season. 2-yr.-old roots, \$1.20 per doz.; 25 for \$2.00; \$5.00 per 100, postpaid.

NEW RED RHUBARB

VALENTINE. The new "all-red" Rhubarb. Large stalk, which is red all the way through. This is, by far, the SWEETEST and BEST of all the red Rhubarbs. A very vigorous grower with stalks of high quality and rich flavor. An excellent variety for freezing or canning. Strong divisions, 60c each; 5 for \$2.50, postpaid.

MacDONALD. A new, very high quality, attractive bright red Rhubarb with large stalk, very tender and succulent. Particularly valuable for pies and desserts. MacDonald requires less sugar for cooking than any of the old standard varieties. It yields heavily and lasts a lifetime. Strong divisions, 50c each; 5 for \$2.00, postpaid.

HORSE RADISH

America's Most Popular Relish—An Essential of Every Old-Fashioned Garden—A Commercial Moneymaker.

MALINER KREN. This Bohemian variety gives an enormous yield and is so early that it can be marketed before the common kind is ready; besides, the roots are much larger and whiter. They sell readily and yield as high as 4 to 6 tons per acre. It requires about 10,000 sets for an acre, and the crop is ready for the market the first year. Easy to grow; every plant will live. Root Cuttings, 5 for 75c; \$1.40 per doz.; 25 for \$2.00, postpaid.

SAGE; SPEARMINT; SWEET ANISE. 35c each; 5 for \$1.55, postpaid.



GLADIOLUS

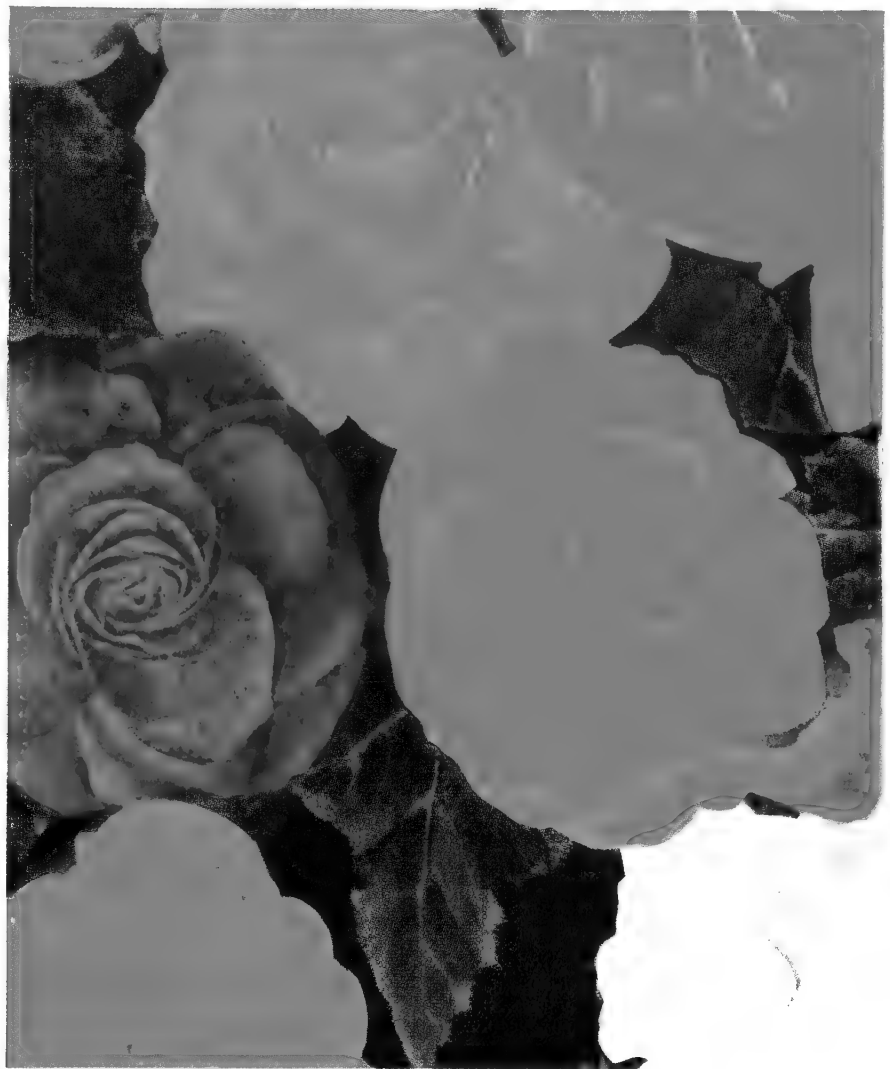
One of the most satisfactory of all summer-flowering bulbs, making a wonderful show both in the garden and when cut for home decoration. We offer a special collection of this old favorite, 12 bulbs packed in a carton, each a distinct and different variety, **65c per box.**



BULBS TO PLANT THIS SPRING

Acidanthera Murieliae

Here is a summer-flowering bulb new to a host of gardeners, which find its way into home gardens. It is treated like gladiolus and blooms in late summer. **Top-size corms, \$1.50 per doz.; \$11.00 per 100.**



TUBEROUS-ROOTED BEGONIAS

These richly colored, waxy-petaled blooms have become very popular in the last few years. The large flowers come in a wide range of colors and are produced in abundance when grown in a location that suits them. They need semi-shade, rich soil and plenty of moisture. Bulbs may be started indoors in late winter and set outside when warm weather comes; or they may be planted directly outside about mid-May.

Double Camellia Type. Colors include pink, white, yellow, orange and red. **Largest bulbs, 2 in. and up, 35c each; \$3.50 per doz.; \$25.00 per 100.**

Summer-Flowering

BULBS



FANCY-LEAVED
\$3.50 per doz.

CALADIUM
35c each;

Bulbs that are set out when warm weather comes and bloom later in the season contribute a great deal to the mid-summer garden. They are of easy culture and provide great masses of color. Most of them are fine for cutting. Where short-lived annuals have had their day or perennials, for some reason, are not living up to expectations, summer-flowering bulbs can fill the gap and do real service.



CANNA, THE PRESIDENT
15c each; \$1.50 per doz.



CANNA, CITY OF PORTLAND
15c each; \$1.50 per doz.



LILIUM
TENUIFOLIUM.
Pkt. 15c



TUBEROSE
EXCELSIOR DWARF PEARL
Jumbo bulbs, 20c each;
\$2.00 per doz.



GLOXINIAS. 35c each; \$3.50 per doz.



LILIUM REGALE
Pkt. 15c; 1/8oz. 55c



TIGRIDIA. \$1.50 per doz.; \$11.00 per 100

Insecticides to Control Chewing and Sucking Insects

ARSENATE OF LEAD. Kills leaf-eating insects on fruit trees and shrubs; also used to grubproof lawns. 1-lb. carton 70c; 1-lb. bag 65c; 4-lb. bag \$1.80.

BENZENE HEXACHLORIDE (BHC). Controls spittle-bug nymphs, grasshoppers and ticks. A triple-acting insecticide, stomach poison, contact poison and fumigant.

DuPont's Lexone 10-W (BHC). A 10% wettable dust. 6-lb. bag \$3.70.

Niagara Aphid Dust (BHC). A 1.2% wettable dust. Use 8 to 12 tablespoonfuls per gallon of water. Lb. 70c; 4 lbs. \$2.10.

BLACK-LEAF 40. A concentrated nicotine solution for aphids, thrips and red spider. 1 ounce makes 6 gallons of spray. Oz. 35c; 5 ozs. \$1.00; lb. \$2.40; 2 lbs. \$4.15; 5 lbs. \$7.40; 10 lbs. \$12.65.

CHLORDANE PRODUCTS. Recommended insecticides for control of grasshoppers, ants, Japanese beetles, grubs, white grubs, ticks, moles, crickets, roaches and wireworms.

Acme Chlordane. A 6% wettable dust. 1-lb. carton 60c; 4 lbs. \$1.50.

Dowklor. A 5% chlordane dust packed in a 1-lb. pump gun dispenser. 70c.

Synklor 50-W. A dry, wettable powder containing 50% chlordane. 8 ozs. \$1.50; lb. \$2.50.

Synklor 48-E. A liquid emulsion of 48% chlordane. Use 2 to 3 teaspoonfuls per gallon of water. 8 ozs. \$1.25; qt. \$4.00; gal. \$8.00.

CRYOLITE. A stomach poison for hard-to-kill insects such as blister beetle, hornworm, pinworm on tobacco, cucumbers and greenhouse tomatoes. 1-lb. carton 45c; 2-lb. bag 55c; 4-lb. bag \$1.00.

DAIRY CATTLE SPRAY (DuPont's). A wettable powder containing 50% wettable methoxychlor to control insects on dairy cattle and in dairy barns. 4 ozs. 45c; 1-lb. bag \$1.05; 2-lb. carton \$2.20.

50% WETTABLE DDT POWDER. 1-lb. carton \$1.00; 4-lb. bag \$2.40.

PESTROY 10% DDT POWDER. To control crawling insects around the house. 3-oz. puffer can 39c; 8-oz. pump gun 69c.

PESTROY 25% LIQUID DDT. For unfinished buildings or livestock. Qt. \$1.89; gal. \$5.25.

PRATTS 25% LIQUID DDT. A high-quality liquid DDT for use on fruits, vegetables, flowers or unfinished buildings. Use 2 to 4 teaspoonfuls per gallon of water. ½ pt. 85c; qt. \$1.75; gal. \$5.30.

SHAWNEE 5% DDT DUST. A ready-to-use dust for agricultural crops. 2-lb. bag 55c; 4-lb. bag 90c; 25-lb. bag \$4.85.

DX INSECT SPRAY. An effective spray for fruits, flowers and vegetables. Controls chewing or sucking insects. Use 2 to 4 teaspoonfuls per gallon of water. 1-oz. bottle 35c; 4 ozs. \$1.00; ½ pt. \$1.75; qt. \$5.50; gal. \$14.50.

EMO-NIK. An oil-emulsion nicotine spray for garden and nursery use against mealy bug, squash bugs, red spider. Use 2 tablespoonfuls per gallon of water. 4½ ozs. 45c; pt. 85c; qt. \$1.30.

EVERGREEN GARDEN SPRAY. Pyrethrum base. Non-poisonous to humans; sure death to garden insects. 1 ounce makes 6 gallons. Oz. 35c; 6 ozs. \$1.15; pt. \$2.45; qt. \$4.10.

METHOXYCHLOR (Marlate). 50% wettable methoxychlor. Recommended for use on plants and animals or buildings, as protection against beetles, ants, worms, flies. 8 ounces makes 17 gallons for plant use. 8-oz. can 75c; 4-lb. bag \$3.75.

PARADICHLOROBENZENE. For killing the peach-tree borer. 1 ounce will treat full-grown tree. ½ lb. 35c; lb. 60c; 5 lbs. \$2.50.

PARASCALECIDE. For safe control of peach borer via dipper method. 1 quart makes 8 quarts for use. Qt. \$1.25; gal. \$3.00; 5 gals. \$9.50.

RED ARROW. A contact insecticide that may be used upon tender foliage and flowers without burning or staining. Economical to use, being decidedly effective at dilutions of 1 to 500. Oz. 35c; 4 ozs. \$1.00; pt. \$2.85.

ACME GARDEN GUARD. .75% rotenone. 1-lb. carton 50c; 4-lb. bag \$1.00.

BLACK-LEAF ROTENONE DUST. 1.0% rotenone and 10% sulphur. Lb. 35c; 4 lbs. \$1.25; 25 lbs. \$5.15.

BOURBON. .75% rotenone. 1-lb. dust gun 35c; 1-lb. bag 30c; 2-lb. bag 55c; 5-lb. bag \$1.25.

HAMMOND'S ROTENONE DUST. Contains .75% rotenone and stabilizing agent. Use wet or dry. Lb. 40c; 5 lbs. \$1.25; 25 lbs. \$4.50.

SHAWNEE ACTIVATED ROTENONE. Contains .40% rotenone, sulphur and lethane. 2 lbs. 55c; 4 lbs. 90c; 25 lbs. \$4.75.

SHAWNEE. .75% rotenone and lethane. 2 lbs. 60c; 4 lbs. \$1.00; 25 lbs. \$5.35.

SHAWNEE. .75% rotenone and 3% DDT. Useful where bean beetles and leafhoppers are a problem. 2 lbs. 65c; 4 lbs. \$1.10; 25 lbs. \$5.75.

SABADILLA DUST (Shawnee). This 10% Sabadilla Dust is effective for controlling squash bugs, cabbage worms and leafhoppers. 2-lb. bag 60c; 4-lb. bag \$1.15.

SCALECIDE. This dormant oil spray is very effective against scale, aphid and red mite. 1 quart makes 15 quarts. Qt. \$1.00; gal. \$2.50; 5 gals. \$8.50; 15 gals. \$20.50. Larger sizes quoted on request.

SNAROL. An effective metaldehyde bait for controlling cutworms, slugs, snails and sowbugs. Simply scatter on the ground. Lb. 35c; 2½ lbs. 75c; 6 lbs. \$1.50.

TOBACCO DUST (Gold Leaf). Not less than 1.0% nicotine. 2 lbs. 30c; 10 lbs. \$1.05; 100 lbs. \$9.75.

VOLCK OIL SPRAY. Effectively controls aphid, mealy bug, white fly, thrips, etc., while for red spider and scale insects upon evergreens it is unequaled. Does not discolor foliage. Use 4 teaspoonfuls per quart of water. 4 ozs. 40c; pt. 80c; qt. \$1.40; gal. \$3.00; 5 gals. \$10.00.

Fungicides to Control Mildew, Rust, Blackspot and Other Plant Diseases

BORDEAUX. One of the oldest and still most widely used protective fungicides to control blights, black rot, mildew, leaf curl and other diseases of plants. Lb. 50c; 4 lbs. \$1.35.

COPPER A COMPOUND (DuPont). An insoluble fixed copper useful as a spray or dust to control blights, leaf spots, etc. Use 4 tablespoonfuls per gallon of water. 6-lb. bag \$2.65.

COPPER SULFATE POWDER. Blue vitriol. Lb. 30c; 5 lbs. \$1.45; 10 lbs. \$2.80.

CUPROCIDE (Shawnee). A ready-to-use fixed copper dust for control of blights and other diseases on tomatoes and potatoes. 2 lbs. 45c; 4 lbs. 85c.

FERMATE. See page 57.

FORMACIDE. A formaldehyde dust used to treat soil to prevent damping off of seedlings and cuttings. 8 ounces treats a bushel of soil. ½ lb. 50c; lb. 85c; 5 lbs. \$2.50.

LIME SULPHUR LIQUID, HORICUM. 1 gallon makes 7 to 10 gallons of spray. Qt. 60c; gal. \$1.80; 5 gals. \$8.50.

LIME SULPHUR, DRY. For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Used in summer for scab, blotch, red mite and red spider control. 1 pound makes 5 gallons of dormant spray. Lb. 65c; 5 lbs. \$2.65; 12½-lb. bag \$3.30.

PARZATE (Fungicide A). See page 57.

SULPHUR

ACME WETTABLE DUSTING SULPHUR. 2 lbs. 55c.

DUPONT MICROFINE SULFURON. 6 lbs 95c.

NIAGARA WETTABLE DUSTING SULPHUR. 2-lb. canister 50c.

FLOUR OF SULPHUR. For chiggers, etc. 50-lb. bag \$3.50.

SULFOCIDE. A concentrated liquid sulphur fungicide for use on flowers, vegetables and fruits. Use 2 teaspoonfuls per gallon of water. Pt. \$1.00; qt. \$1.45; gal. \$3.00.

TOBACCO PLANT BED DUST (Shawnee). Controls blue mold in tobacco beds. 8% Dithane Z-78. 4-lb. bag \$1.10; 25-lb. bag \$6.40.

TOMATO DUSTS

ACME TOMATO DUST. Contains 15% fixed copper plus an insecticide to control hornworms, etc. Use 10 tablespoonfuls per gallon to make a spray. Lb. 60c; 4 lbs. \$1.50.

BONIDE TOMATO DUST. A fixed copper for control of blights. Lb. 40c; 5 lbs. \$1.20.

HAMMOND TOMATO DUST. An excellent formula containing a fixed copper fungicide and insecticide to combat late and early blight as well as insects. 1-lb. bag 50c; 5 lb. \$2.00.



ZERLATE. An organic fungicide for certain vegetables and fruits. 3-lb. bag \$2.75.

ALL-PURPOSE SPRAYS OR DUSTS

For Control of Both Insects and Diseases

BLACK-LEAF GARDEN DUST OR SPRAY. A thoroughly blended combination of time-proved and well-known insecticides. Contains nicotine, pyrethrum, rotenone and ferimate, for use on flowers and vegetables. To make a spray use 1 tablespoonful per quart of water. $\frac{1}{2}$ lb. 65c; lb. \$1.15.

CUROTE (Hammond). A fixed copper and rotenone dust best used on tomatoes, celery, eggplants and potatoes, to control insects and blights. Lb. 50c; 5 lbs. \$1.60.

ENDOPEST. The protection all gardens need from chewing and sucking insects and fungus diseases. Comes in a handy, cartridge-refillable dust gun. Safe to use on edible fruits and vegetables right up to the day of harvest. Leaves no unsightly residue to mar floral beauty. 4-oz. sifter carton 25c; 10-oz. dust gun 85c; 10-oz. refill 65c.

FLORAL DUST, DuPont. See page 57.

FRUIT TREE SPRAYS

BONIDE TREE-TOX FRUIT TREE SPRAY. A complete fruit tree spray or dust for control of insects and diseases. Contains sulphur, ferimate, DDT and chlordane. Use 2 to 8 tablespoonfuls per gallon of water. Lb. \$1.00; 4-lb. \$3.25.

DuPONT FRUIT TREE SPRAY. Contains sulphur, ferimate, methoxychlor and rotenone. 1 pound makes 13 gallons. Lb. \$1.15; 3 lbs. \$2.75.



PRATT'S FRUIT TREE SPRAY. A combined insecticide and fungicide containing sulphur, DDT and basic lead arsenate for the control of many chewing and sucking insects and fungus diseases on apples, pears, peaches, plums and ornamentals. May be used as a dust or spray. 1-lb. sifter-top can 75c; 3-lb. bag \$1.35.

POMO-GREEN with NICOTINE (Massey Dust). The leaf-green all-in-one dust or spray. A combination material, which controls fungus diseases and kills both leaf-eating insects and aphids. Leaf-green in color and never unsightly on plants. May be used for dusting or spraying. Lb. \$1.00; 5 lbs. \$3.85.

ACME RED RIVER POTATO MIX. (Containing DDT.) DDT has been added to Red River Potato Mix, increasing its effectiveness against leafhopper and psyllid. Will also kill potato bugs as well as stimulate growth of foliage. Use as dust or spray. Lb. 80c; 4 lbs. \$2.60.

PRATT'S GARDEN AND ROSE DUST. Contains pyrethrum, piperonyl cyclohexenone, rotenone, sulphur and copper. All-purpose garden dust. Controls sucking and chewing insects and fungus diseases on flowers and vegetables. 1-lb. handy dust gun \$1.35; 1-lb. sifter-top can 85c; 2-lb. canister \$1.50.

ROSE DUST, DuPont. See page 57.

SLUG SHOT. The original 3-in-1, general-purpose dust. Powerfully effective against leaf-eating insects and plant diseases. Lb. 40c; 5 lbs. \$1.65.

SPERGON GLADIOLUS DUST. A dust containing Spergon and DDT to be applied to corms before planting, in order to help control rot and thrips. May also be used on tulips, narcissus and iris. 2-oz. envelope 25c; lb. \$1.50.



TRI-GEN ROSE SPRAY. The outstanding rose spray. It has lead arsenate, pyrethrum, rotenone and ferimate to control leaf-eating insects as well plant diseases.

E Kit. Protects 6 to 10 bushes \$1.35.

A Kit. Protects 12 to 20 bushes \$2.25.

B Kit. Protects 50 to 80 bushes \$6.00.

C Kit. Protects 100 to 160 bushes \$9.00.

D Kit. Protects 400 to 600 bushes \$30.00.

TRI-GEN DUST. Contains ferimate and sulphur plus insecticides for those who prefer dusting roses as well as other horticultural plants. Controls eating insects, sucking insects, mildew, blackspot, etc. Same results accomplished as with spray form of Tri-Ogen. Lb. 85c; 5 lbs. \$3.50.

Miscellaneous

CHAPERONE (Liquid). Spray hedges, garbage cans, etc., if you want to keep dogs or cats away. 4 ozs. 60c; 8 ozs. \$1.00.

CROW REPELLENT (Stanley). Seed preserver for corn. $\frac{1}{2}$ -pt. can is enough for 1 bushel seed. $\frac{1}{2}$ pt. 60c; pt. \$1.00; qt. \$1.75.

DOGZOFF. The efficient animal repellent that won't damage plants. Now packed in a handy, economical Aerosol dispenser. 4-oz. bottle 75c; 11-oz. Aerosol \$2.25.

DORMATONE. For the treatment of potatoes and other root crops to restrain sprouting and reduce shrinkage while in storage. 12 ounces treats 11 bushels. 12-oz. can \$1.00; 5-lb. can \$5.50.

FISH OIL SOAP. An ideal spreader for insecticides. $\frac{1}{2}$ pt. 50c; pt. 90c.

FUMEUGEN. A little Fumeogen spread lightly on the soil around shrubs or plants will protect them from cats, dogs and rabbits. 8-oz. can 50c.

GRAFTING WAX. $\frac{1}{4}$ lb. 35c; $\frac{1}{2}$ lb. 50c; lb. 80c.

NAPHTHALENE FLAKES. Useful in controlling gladiolus and cyclamen thrips, as well as certain soil insects, moles, etc. Lb. 40c; 5 lbs. \$1.75; 25 lbs. \$7.75.

PARADICHLOROBENZENE. See page 55.

PHYGON SEED PROTECTANT. May be used as seed protectant for beets, corn, peas, pepper, spinach and other seeds. 2 ozs. 50c; 4 $\frac{1}{2}$ ozs. \$1.00.

PHYGON XL. (Wettable.) A fungicide for the control of all leaf blights and fruit rot of tomatoes, blackspot of roses, apple scab and many other plant diseases caused by fungi. 2-oz. can 50c; 4 $\frac{1}{2}$ ozs. \$1.00; 1-lb. can \$2.70.

PRATTS 622 INSECT REPELLENT. A post-war insect repellent that works. 2 ozs. 50c.

ROOTONE. A hormone powder for rooting cuttings, dusting seeds or bulbs. $\frac{1}{4}$ -oz. pkg. 25c; 2-oz. jar (will treat up to 3000 cuttings) \$1.00.

SOIL FUME CAPS. Contains ethylene dibromide in capsule form for use in control of nematodes and wireworms in garden or greenhouse soil. Use one capsule per square foot. 100 capsules \$2.00.

SPERGON. A seed protectant in powder form to be applied to seed before planting, to prevent seed decay and damping off particularly in cold, wet weather. Recommended for peas, beans, lima beans, corn and other seeds. It is easy to apply to the seed and non-injurious to the user. 1-oz. envelope 25c; 5-oz. container \$1.00.

SPERGON. (Wettable.) A fungicide for the control of downy mildew on cabbage, cantaloupe and cucumbers. A dip for sweet potato seed and sprouts and for Croft lily bulbs; also for the control of brown patch and dollar spot in turf. 4-oz. container 50c; 1 lb. \$1.25.

SPRAY CATALIZER (Pratts). A safener, spreader and sticker to be used with sulphur, lime sulphur and lead arsenate. 2 lbs. 85c.

SPREADER STICKER (DuPont). A combined spreader, sticker and wetting agent. Pt. \$1.25.



STOP (Acme). A tree-banding compound to be painted around the trunks to keep insects from crawling into the trees. Lb. \$1.05; 7 $\frac{1}{2}$ lbs. \$6.25.

TRANSPLANTONE. For the treatment of plants when transplanting. Contains the root-forming hormones and vitamin B-1. Reduced wilt and makes roots grow. $\frac{1}{2}$ -oz. pkt. (treats 800 plants) 25c; 3-oz. jar \$1.00.

TREE KOTE. A tree-wound dressing and pruning compound. Pt. 55c; qt. 75c; gal. \$2.00.

TREE TANGLEFOOT. The original sticky compound for banding trees and shrubs. Lb. \$1.25; 5 lbs. \$5.85.

TREE WOUND PAINT. Prevents decay and disease after pruning. Not affected by heat, cold or moisture. $\frac{1}{2}$ pt. 65c; pt. \$1.20; qt. \$2.10; gal. \$6.50.

ZINC SULFATE. Used with insecticides and fungicides such as lead arsenate and Dithane D-14 to correct spray injury. Lb. 25c; 5 lbs. \$1.15; 10 lbs. \$2.20.

SPRAY MATERIALS



SEED DISINFECTANTS

**VEGETABLE GARDEN DUST.**

Kills bugs and controls disease. No plant injury—safe to use up to harvest time on vegetable plants. Through its methoxychlor and rotenone content, it controls beetles, certain aphids, squash vine borers and many other insects. Its fungicide, Parzate, is unsurpassed in ability to control late and early blight of tomatoes and potatoes, downy

mildew of squash, cucumbers and melons. Use as a spray or dust. 8-oz. dust gun 79c; 1-lb. canister \$1.15; 4-lb. canister \$3.50

FRUIT TREE SPRAY. See page 56.

FLORAL DUST. An all-round spray or dust designed especially for the home flower garden. Gets rid of insects and prevents diseases. Contains methoxychlor and rotenone to control insects, fermate and sulphur for diseases. Use as a dust or spray. 8-oz. dust gun 79c; 1-lb. sifter-top can \$1.15; 4 lbs. \$3.50.

FUNGICIDE A (Parzate). This is DuPont's newly developed bis-dithiocarbamate fungicide. Simplifies control of certain diseases such as early and late blight of tomatoes and potatoes, downy mildew of cucum-

ber, cantaloupes and other cucurbits, rust and anthracnose of beans. Can be used as a spray or dust. 6-oz. can 85c; 3-lb. bag \$3.25.

DEENATE. 75% wettable DDT. Properly used, DDT is still one of the gardener's most effective insecticides; also valuable for use on lawns and around buildings. Lb. \$1.30; 3 lbs. \$2.60; 4 lbs. \$3.45.

DAIRY CATTLE SPRAY. See page 55.

FERMATE. The new organic fungicide which is especially effective on fruits, flowers, greenhouse crops, ornamentals and certain vegetables. Used extensively to control blue mold on tobacco. Circulars with complete information on request. 8-oz. canister 75c; 3-lb. bag \$2.75.

MARLATE (50% Methoxychlor). Safe to use on tender plants and on vegetable crops right up until harvest time. Kills bean beetles, potato beetles, flea beetles, Japanese beetles, cabbage worms and many other insects. May be used as a dust or spray. 8-oz. canister 75c; 4-lb. bag \$3.75.

LAWN WEED KILLER. A concentrated 2, 4D in liquid form. Rids lawns safely of many broad-leaved weeds. 32-oz. can treats almost 1/2 acre. 8 ozs. \$1.00; 32 ozs. \$2.95.

ROSE DUST. A control for blackspot, powdery mildew, rust and other foliage diseases of roses. Contains fermate and sulphur. May be used as a dust or spray. 8-oz. dust gun 69c. Lb. \$1.00.

SULFURON. A micro-fine wettable sulphur. 6 lbs. 95c.

ZERLATE. An organic preventive fungicide best adapted for use on vegetable plants. Should be applied in advance of infection. 3-lb. bag \$2.75.

CERESAN "M." The new non-irritant dust or slurry treatment for small grains. 14 ounces treats 28 bushels. 14 ozs. \$1.15; 3 lbs. \$3.25; 40 lbs. \$32.20; 100 lbs. \$79.00. Circular on request.

NEW IMPROVED CERESAN. For Seed Grains. Effective in controlling seed-borne diseases of grains, sorghums, millets and flax.

1 pound treats 32 bushels. Full directions furnished. 4 ozs. 45c.

SEMESAN. For Flower and Vegetable Seeds. Used in dust or liquid form for vegetables, flower seeds or bulbs. 1 pound treats 15 pounds. Full directions furnished. 1/3-oz. pkt. 20c; 2 ozs. 60c; 12 ozs. \$2.40; 4 lbs. \$11.00; 25 lbs. \$58.28; 100 lbs. \$219.80.

SEMESAN BEL. For Seed Potatoes. A disinfectant for better control of seed-borne rhizoctonia and scab. 1 pound treats 60 to 80 bushels. Full directions furnished. 2 ozs. 50c; 1b. \$2.00; 4 lbs. \$6.33.

SEMESAN JR. For Field and Sweet Corn Seed. Controls ear, root and stalk rots of both types, 1 1/2 ounces treat 1 pound shelled corn. 1 1/2 oz. 17c; 12 ozs. 62c; 25 lbs. \$13.85.

ARASAN SF. For slurry treaters. 3 lbs. \$5.20; 25 lbs. \$45.00; 100 lbs. \$172.50.

ARASAN. For corn, peanuts and vegetables. 3/4 oz. 25c; 8 ozs. \$1.00; 4 lbs. \$6.00; 25 lbs. \$30.00; 100 lbs. \$115.00.

SPECIAL SEMESAN. For large brown patch and dollar spot. 1 pound treats 6000 square feet. 5 ozs. 70c; 1b. \$2.00; 4 lbs. \$6.92; 6 lbs. \$10.38; 25 lbs. \$39.96; 100 lbs. \$149.85.

F-531. A cadmium fungicide for control of dollar spot on golf courses, lawns and other fine turfs. Lb. \$2.40; 4 lbs. \$6.75; 25 lbs. \$37.50; 100 lbs. \$140.00.

TERSAN. The new organic fungicide for prevention or control of dollar spot, large brown patch and snowmold on all fine turfs. 8 ozs. 50% Tersan 80c; 3 lbs. 75% Tersan \$6.75.

ANT, MOUSE, RABBIT, RAT, ROACH AND MOLE CONTROLS

ANT DUST. A specially blended chlordane dust for controlling ants in homes, lawns and gardens. 6 ozs. 35c; 1b. 60c; 5 lbs. \$2.25.

ANTROL ANT TRAPS. Kills both sweet and grease-eating ants. 20c each.

ANTROL READY FILLED SETS. Consists of four patented glass feeders filled with regular Antrol syrup. 39c per set.

BLACK FLAG SUPER INSECT SPRAY. A rapid-killing, long-lasting household spray. Contains chlordane, pyrethrum, lethane and DDT. It controls flies, mosquitoes, ants, roaches, bedbugs and moths. 6 ozs. 35c; pt. 69c; qt. \$1.19; gal. \$2.95.

CYANOGLAS ANT KILLER. 4-oz. spout can contains enough Cyanoglas to treat average lawn or garden. 4 ozs. 50c.

CYANOGLAS Calcium Cyanide, Grade A. (Dust.) For the destruction of ground moles, woodchucks, rats and other rodents. 1-lb. can \$1.25; 5-lb. can \$3.75; 25-lb. can \$12.50; 100-lb. drum \$30.00.

CYANOGLAS, Grade G. For greenhouse or mill fumigation. 5-lb. can \$3.75; 25-lb. pail \$12.50; 100-lb. drum \$30.00.

FORCE'S MOLE KILLER. No traps; no gas. True mole food scent attracts and kills moles. Pellet form. 35 pellets 30c; 75 pellets 60c; 185 pellets \$1.00.

MOLE NOTS. A specially prepared mole food. In prepared bait form. Pkg. 35c; large size \$1.00.

MOLITE RODENT KILLER. Kills moles, rats, gophers. New improved gas-type destroyer. Use one for every 12 feet in runway. 15c each; \$1.50 per doz.

MOUSE NOTS. For house or garden. Impregnated prepared bait. No mixing; no traps. Pkg. 25c; large size \$1.00.

NO NIB'L RABBIT REPELLENT. An effective taste repellent that can be used as a dust or spray. Apply to plants or flowers. 6-oz. shaker-top can \$1.25.

RABBIT REPELLENT (G&O). 5-lb. bag will treat 100 to 150 individual plants or 200 to 250 running feet of plant row (one side). Full directions for use on package. Lb. 45c; 5 lbs. \$1.75.

RAT NOTS. Contains red squill in prepared bait form. No mixing. Non-poisonous to pets. Pkg. 25c; large size \$1.00.

ROACHPAINT ROACH KILLER. An amazing new liquid that controls all species of roaches. Completely eradicates the most severe infestation within four days. Prevents reinfestation for 90 days. Applied with brush or as spray. No unsightly residue. Pt. 75c; qt. \$1.25.

RAT AND MOUSE SYRUP, TOPZOL. Contains liquid red squill for making your own baits. Oz. 35c.

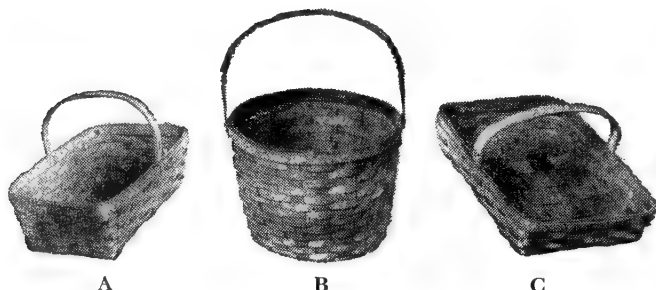
TAT MO-GO. Poison peanut which, when eaten by moles, brings sure death to them. Trial size 35c; 3 1/2 ozs. \$1.00; 1b. \$3.50.

TERRO ANT KILLER. Trial size bottle 25c; 3 ozs. 50c.

TERRO ROACH KILLER. Kills roaches, water bugs. 4-oz. shaker-top can 35c.

WARFARIN RAT KILLER (Black Leaf). Because Warfarin acts so slowly, rats do not develop bait shyness and therefore whole colonies can be wiped out. Relatively safe to handle. So powerful that 1 part Warfarin must be added to 19 parts of suitable bait, such as cornmeal, etc. 1/2 pound treats the average farm. 1/4 lb. \$1.75; 1/2 lb. \$3.00; 1b. \$5.00.

LAWN AND GARDEN EQUIPMENT



A

B

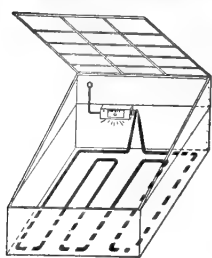
C

C.—FLOWER AND FRUIT BASKET

Suitable for picking flowers, berries, vegetables, etc. Will hold six 1-quart baskets. No. 72-2. Size 20 x 13 x 4 in. deep. **\$1.30.**

"GRO-QUICK" ELECTRIC SEED BED HEATER

Be a month ahead of neighboring gardens



For hotbeds, cold-frames and plant benches. Operates on household current. Has adjustable thermostat and pilot light. Will last for years.

JUNIOR GRO-QUICK (for 6x3-ft. bed). Has 40 ft. of 200-watt cable. **\$6.75, pre-paid.**

SENIOR GRO-QUICK (for 6 x 6-ft. bed). Has 80 ft. of 400-watt cable. **\$9.00, pre-paid.**

LABELS (Wooden Painted)

	100	1000
3½-in. wired, tree.....	\$0.60	\$4.10
4-in., pot.....	.50	3.30
5-in., pot.....	.55	3.60
6-in., pot.....	.60	4.05
8-in., pot.....	.85	6.00
8-in., garden.....	1.05	8.50
10-in., garden.....	1.35	9.60
12-in., garden.....	1.95	16.00

Wolverine Gloves No. 2504

Pigskin work gloves designed for durability and comfort. Brown only. Small, medium, large. **\$1.50 per pair.**

Green Thumb Gloves

Garden and utility gloves for yard work, dusting, painting. Washable. Small, medium, large. **89c per pair.**

Eezy Wear Garden Gloves

Made of soft leather. Ideal for garden and similar uses.

Dirt-Proof; Durable; Washable

Ladies' Sizes 7 and 8, **\$1.65 per pair.** Men's Sizes 9 and 10, **\$1.75 per pair.**



Victor Mole Trap

A spear type which harpoons the mole, causing instant death. Six prongs. 16¾ in. extreme length. **\$1.80.**

BASKETS

A.—OAK MARKET BASKET

No. 21-1. Size 18 x 10½ x 6 in. deep. **\$1.30.**

No. 21-3. Size 22 x 13½ x 7 in. deep. **\$1.75.**

B.—OAK PICKING BASKET

½-bu. size **\$1.50.**

¾-bu. size. **\$1.70.**

E-Z Trip Mole Trap

Simple and easy to set. The scissors type action is positive in design and action. **\$1.80**

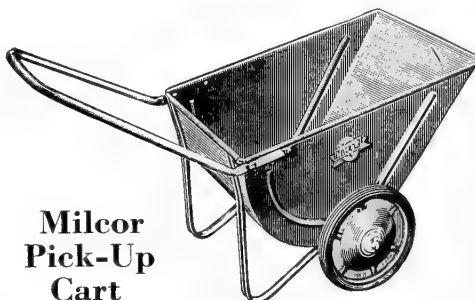
Dunham Water-Weight Roller



Can be made as heavy or as light as desired by simply putting in the right amount of water. For storing away or for moving, it can be emptied entirely and is light and easy to handle.

No.	Diam. In.	Length In.	Approx. Wt.	
			Empty	Water-filled
1	12½	18	30	100.....
2	14	24	50	160.....
4	18	24	60	220.....
7	24	24	80	400.....
				\$11.25
				17.50
				20.50
				27.50

The above rollers weigh 50 percent more when filled with sand; water is more convenient.



Milcor Pick-Up Cart

Metal body. Top opening 18 x 27 in. Capacity 2¾ cu. ft. Wheels 11 in. in diameter. Tires 1½ in. wide and are of the puncture-proof, semi-pneumatic type. The cart has a baked enamel finish. The body is green and the wheels, handle, etc., are orange. **\$9.00.**

Germaco

Hotkaps

Help You Grow Earlier, Hardier Vegetables and Flowers.

Strong little hothouses to protect plants from destructive frost, storms, insects. University tests prove HOTKAPS increase yield 18 to 51 percent, thus nearly doubling the early marketable yield and ripening crops three weeks earlier for highest prices. Quick, easy to set.

25 Hotkaps with Setter 95c; 100 with Setter and Tamper \$3.15; 250 Hotkaps with setter and Tamper for \$5.90; 1000 for \$18.35; 5000 lots, \$18.20 per 1000; 10,000 lots, \$18.05 per 1000. Steel Setter \$1.95. Fibreboard Setter 20c. Not ppd.



Parker Lawn Sweepers

All-Season Lawn Conditioners



Use Parker's Year-Round Lawn Valet for a healthier, more beautiful lawn. Early spring cleaning of winter refuse—late spring grooming—summer-long pruning and weeding—quicker, easier reaping of the fall leaf harvest—cleans sidewalks, too. Makes year-round lawn care a genuine pleasure.

20-in. Parkerette.....	\$32.00
28-in. Parkerette.....	39.50
24-in. Yardgroom.....	42.00
28-in. Springfield.....	53.80

Plant Props

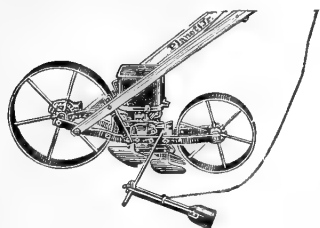
Made of heavy gauge steel, finished in baked green enamel; strong, permanent and easy to use. The loop at the top slips around the plant stems eliminates tying, yet holds the plant in the desired upright position.

16 in. over all, 65c per doz.; 30 in. over all, \$1.35 per doz.; 42 in. over all, \$1.60 per doz.; 66 in. over all, \$2.65 per doz.; 78 in. over all, \$3.85 per doz.



LAWN AND GARDEN EQUIPMENT

Planet Jr. Cultivators and Seeders



No. 300-A SEEDER. Ideal for the farmer and grower who does not have sufficient acreage to warrant a tractor or horse-drawn outfit. The No. 300-A will plant in continuous rows any seed from the smallest up to bush lima beans. Capacity 3½ qts. Concave rear wheel for upland soil. **\$33.50.**



PLANET JR. No. 17. The most popular of all wheel hoes. Light enough for a woman to handle, yet strong and sturdy enough for any job. The attachments, hoes, cultivator teeth and plow, are all oil-hardened and tempered for better-work and longer wear. **\$12.95.**

PLANET JR. No. 12. A very popular double wheel hoe. Equipment includes a pair of 6-in. hoes, four steel cultivator teeth, one pair of plows, two leaf lifters and a wrench. **\$18.50.**

PLANET JR. EDGER No. 2



This fine lawn edger works quickly, neatly and with a minimum of effort. Can be used on curved or straight walks. With reasonable care, will last indefinitely. **\$3.00.**

ALL PLANET JR. TOOLS ABOVE, EXCEPT EDGER, PREPAID IN CINCINNATI AND SUBURBS.

STAKES, BAMBOO

	Doz.	100
1½ ft. (Painted Green).....	\$0.20	\$1.35
2 ft. ....	.25	1.50
2½ ft. ....	.30	1.75
3 ft. ....	.35	2.00
4 ft. ....	.40	2.50

FLYING DISK

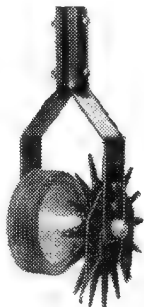
SCARE Birds and Animals Away

Amazing protection for newly planted seeds, berries, tender seedlings, fruit trees, etc. Made of shining aluminum, FLYING DISKS spin and whirl madly in all directions—give blinding reflections and weird jingling, crackling sounds—to scare birds and animals away. Easily strung across area to be protected—or from branches of fruit trees and vines.

10 FLYING DISKS with complete instructions, only **25¢**



Rowe'l-Ezy Edger



This all-purpose lawn and garden edger makes hard-to-do jobs easy. Throw away your grass shears; get off your knees. No more plowing drudgery. **\$4.45.**

Sudbury Soil-Testing Kits

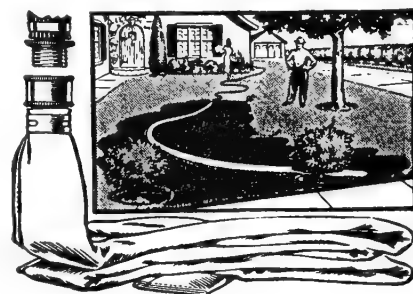
Tests for nitrogen, phosphorus, potash, and acidity. It will give the gardener complete information about the requirements of his soil.

Home Gardener's Kit (20 complete tests).....**\$2.50**
Jr. Professional Kit (makes 50 tests).....**4.75**
Horticultural Kit (makes 130 tests).....**12.50**
De Luxe Model A Kit (makes 200 tests).....**24.95**

WATER-PROOF TREE WRAPPING PAPER

Rolls 4 in. wide, about 150 ft. long. **95c.**

Soil Soaker



	Length	Diameter	Each
No. 0	12 ft.	2 in. (flat).....	\$1.80
No. 1	18 ft.	2 in. (flat).....	2.40
No. 2	30 ft.	2 in. (flat).....	3.70
No. 3	50 ft.	2 in. (flat).....	6.00

Cedar Plant Tubs

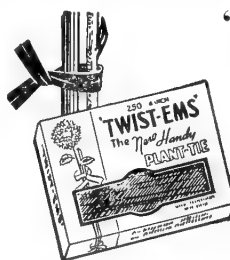
Made from wood containing a supply of natural oil, which prevents the rotting action of water. Green only. Handles available at 75c per pair installed.

	Diameter	Depth	
No. 2	7 in.	7 in.....	\$1.45
No. 3	8 in.	8 in.....	1.70
No. 4	9 in.	9 in.....	1.80
No. 5	10 in.	9 in.....	2.10
No. 7	12 in.	11 in.....	3.15
No. 9	14 in.	13 in.....	4.60
No. 11	16 in.	15 in.....	5.60
No. 13	18 in.	17 in.....	8.00

Lifelong Plastic Plant Protectors

PLASTEX HOTHOUSE. For years gardeners have wanted a plant protector which could be used over and over again. This low-cost, unbreakable, transparent plastic plant cover fills that need. No setter required. Oval; size 5 in. high, 5 in. deep, 8 in. long. **12 for \$3.60; 25 for \$6.75; 50 for \$12.50, postpaid.**

"Twist-Ems" THE NEW HANDY PLANT-TIE



Quick, permanent, attractive, convenient. Color green. Box of 200, 4 in., 25c. Box of 50, 8 in., 15c. Box of 100, 8 in., 25c. Box of 100, 16 in., 50c.

Vigoro Spreaders

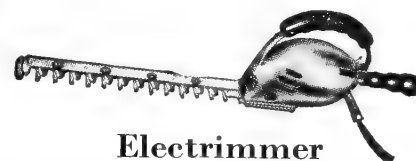


Will spread any kind of chemical or commercial fertilizer, as well as grass seed. Equipped with selective feed control. All models are equipped with rubber tires. Prepaid in Cincinnati and suburbs.

	Width	Capacity	
		Lbs.	
51 BR	18 in.	20 to 25	\$10.20
51 Junior	18 in.	40 to 45	15.30

Cyclone Seeder

Broadcasts lawn and farm seeds, such as alfalfa, clover, timothy, rye and millet. Can be regulated to sow any amount per acre. Holds about ½ bushel. **\$4.00.**



Electrimer

Will change the hardest and most tedious job into a few minutes' pleasure. The 12-in. blade knives through the toughest edge growth without damaging the bark. **\$37.50, postpaid.**

Moist-Shur Plantray

A beautiful rubber tray to prevent stains and scratches on your furniture and window sills.



	Diameter at Base	Takes Pot	
No. 1	4 in.	up to 6 in.....	\$0.30
No. 2	6 in.	up to 8 in.....	.60
No. 3	8¼ in.	up to 12 in.....	1.20

Wik-Fed Pots



Self-Watering
 Sub-irrigating pots with reservoir base. Made of an easily cleaned plastic. The spun-glass wick feeds water and plant food from the reservoir. Violets and other indoor plants thrive in these pots. Colors: ivory, green, red, pink, yellow, blue, gray. Bases are black.

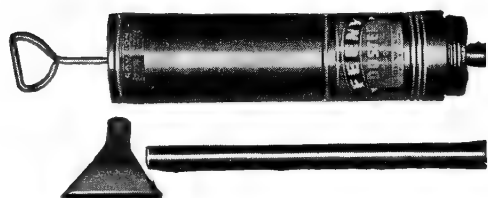
4-in. pot.....	\$1.00
5-in. pot.....	1.50

SPRAYERS AND DUSTERS



The Arnold Garden Hose Insecticide Sprayer is a simple, practical and highly efficient mixing and spraying device which is attached to your garden hose in place of the regular nozzle.

Chrome Adjustable Nozzle.....\$6.50
Brass Adjustable Nozzle.....6.00
Cartridges: DDT, Rot-o-Spray (rotenone), Funguspray, Arseno-Spray, Sulph-o-Spray, Cryolite Spray. 40c each; \$4.80 per doz.



Feeny Duster

Model BX. A handy size for house and garden. Length 16 in.; hopper capacity 1 pt. Provided with a 12-in. extension delivery tube and a special flared nozzle designed for general use and to throw the dust upward. \$1.60.

Model F. Holds approximately 1 qt. Equipped with two 12-in. extension tubes and two nozzles. \$2.50.

Model D. 50 in. long. Enables the operator to dust the under sides of low-growing plants without stooping. Holds approximately 2 qts. \$4.30.



Compressed-Air Hand Sprayer

Throws a fine mist. Capacity 1 qt. Equipped with two nozzles, one for spraying forward and the other to spray underneath foliage.

No. 50T. Tin.....\$1.45
No. 50G. Galvanized.....1.70
No. 50C. Copper.....3.25

Hudson Perfection Sprayer

Open top. 4-gal. capacity.

No. 310G. Galvanized tank. \$13.20.
No. 210B. Copper tank. \$22.40.

HUDSON CLIMAX SPRAYER

Open top. 3½-gal. capacity.

No. 335G. Galvanized tank. \$11.20.

HUDSON CLIMAX JUNIOR SPRAYER

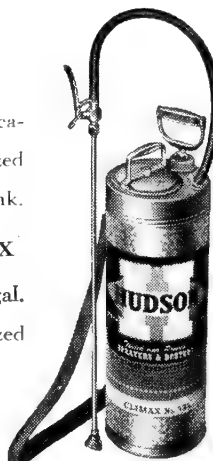
Open top. 2¾-gal. capacity.

No. 341G. Galvanized tank. \$11.20.
No. 241B. Copper tank. \$19.20.

Hudson Leader Sprayer

Funnel top. 3½-gal. capacity.

No. 293G. Galvanized tank. \$9.60.
No. 291G. BOOSTER. 3¼-gal. galvanized tank. Funnel top. \$7.60.
No. 220G. BUGWISER. Galvanized tank. 2½-gal. capacity. Open top. \$6.96.



Hudson Lawn Sprayer

This 3½-gal. copper tank with three-nozzle boom and cart may be used to apply weed killers, insecticides and liquid fertilizers on your lawn. With this sprayer you can cover a 50 x 100-ft. lawn in only ten minutes. \$23.60.

Hudson Hand Sprayers

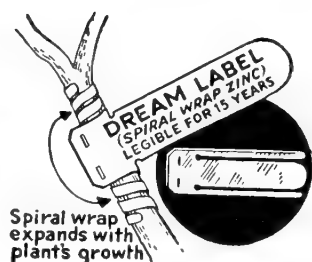
No. 403ND. Capacity 1 qt. 70c.
No. 303ND. Capacity 1 pt. 55c.
No. 431. Capacity 1 qt. \$1.10.
No. 433. Capacity 1 qt. \$1.50.
No. 436. Galvanized. Capacity 3 qts. \$2.30.

Hudson Admiral Duster

No. 766. Equipped with 24-in. extension. Overall length of duster 38 in. Nozzles adjustable for either straight or angle discharge. \$2.00.

Dream Label ZINC SPIRAL WRAP

Expands as Plant Grows



Kit of 24 4-in. zinc labels, 1 oz. of etching ink (enough for 200 labels) and writing applicator for 95c.

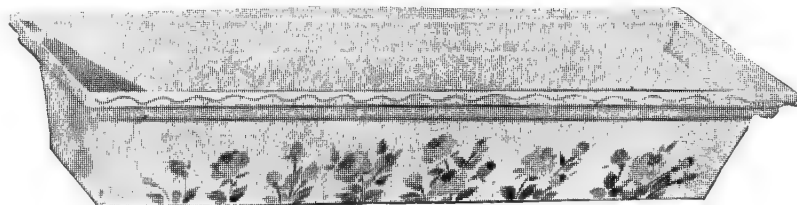
Spiral wrap expands with plant's growth

Decorated Flower Boxes

Painted green and white and decorated on one side with hand-painted flowers. Same construction as Carleo boxes below. All boxes 8¾ in. wide, 6 in. deep.

No.	Size	
No. K-50/9	9 in.	\$1.15
No. K-50/12	12 in.	1.25
No. K-50/15	15 in.	1.50

No.	Size	
No. K-50/24	24 in.	\$2.50
No. K-50/30	30 in.	2.90



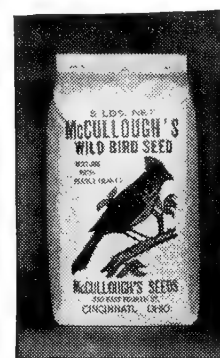
Carleo Flower Boxes

For indoor and outdoor use. All boxes 8¾ in. wide, 6 in. deep. Heavy duty, metal construction. Rich pastel colors: green, blue, orange, yellow, white.

Size	Standard Green	Pastel Colors	White
15 in.	\$0.90	\$1.05	\$1.15
18 in.	1.20	1.25	1.35
24 in.	1.35	1.50	1.65

Size	Standard Green	Pastel Colors	White
30 in.	\$1.65	\$2.00	\$2.05
36 in.	2.25	2.45	2.50

McCullough's Wild Bird Seed



A balanced blend of sunflower and other small seeds and grains including peanut hearts.

5 lbs. 85c; postpaid \$1.10; 10 lbs. \$1.55, postpaid, \$1.90; 25 lbs. \$3.50, postpaid, \$4.15.

25 lbs. \$3.80, postpaid in greater Cincinnati area. Special prices on larger quantities.

PLANT A GARDEN

Home vegetable gardeners have made a tremendous contribution of vital importance to the food supplies of America. In World War II, backyard plots were credited with the production of 42% of the nation's vegetables despite shortages of tools and fertilizers. This represented 7,949,000 tons of produce from 20,000,000 vegetable garden plots.

Each and every home gardeners' efforts would be even more valuable should bombs fall on our large population and transportation centers. This would cause the normal distribution of fresh vegetables to be instantly disorganized, and every section of our country would depend on locally grown vegetables to provide a balanced diet for the population. Home grown vegetables, wisely selected as to variety and properly cared for, can also lessen the drain on commercial stocks of food in stores.

An adequate food supply is important to every citizen. Every town, city, and suburban family with a plot of sunny, open space of suitable soil, or access to a community garden, can make an important contribution to his personal and his country's welfare by planning now to plant his vegetables early. The scarcities of the last emergency should be remembered for a long time to come. Probably only the close of the last war prevented a breakdown in the foodstuffs from producers and manufacturers to retailers and consumers which may have shaken our way of living.

No one can even estimate how soon we again will need millions of gardens. However, many families are realizing now that their family protection for the next year can start inexpensively right now with the coming of warmer spring days for planting. The American home must follow a plan of action which will strengthen the security of families. It must include the land and the natural resources useful in building a strong population.

Vegetable gardening requires little effort for the many returns it provides. There is now ample supplies of seed and fertilizer available for every citizen who plans to save on his family's food budget and at the same time contribute to his country's needs. At this critical time, everyone who considers the facts upon which the future and well being of our nation are contingent, will recognize the wisdom of using the land in his own backyard.

"Our Seeds Grow Friends"

Price Changes We reserve the right to advance or decline with the market when necessary within the law on any item listed in this catalog.

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Seeds by Mail, Etc.

Lawn Grass Seed, Vegetable and Flower Seeds will be forwarded postpaid at catalog prices. All other items are priced f.o.b. Cincinnati.

MATURITY DATES: Following most varieties of vegetables is a number which represents days required to produce vegetables ready for table use. Weather conditions, time of planting, etc., affect the time of maturity, and these figures will vary from year to year. They are intended primarily to afford a basis of comparison rather than to state a rigid interval between the planting and harvesting.

Suggestions for Ordering

In pricing the items in this catalog, we have been required to anticipate such problems as seed shortages, difficulty in securing certain lines of merchandise because of possible new taxes on some articles that would raise their prices, and other situations.

It will be our purpose to fill your orders completely, promptly and at the prices quoted in this catalog. However, if circumstances prevent this, it may be necessary on some items to delay your order, substitute, or ask for a higher price. We recommend that your orders be placed as early as possible.

WARRANTY

We warrant to the extent of the purchase price paid, that at the time of delivery, the seeds, bulbs or plants we sell are as described on the container, or on the tag attached thereto, within recognized tolerances. We give no other or further warranty, express or implied.

CONDITIONS OF ACCEPTANCE: All sales, contracts or orders are subject to acceptance and confirmation at the Cincinnati office of The J. Chas. McCullough Seed Company, and are contingent upon war, strikes, riots, accidents, fires, floods, shortages, transportation difficulties or delays and all other conditions beyond our control. Prices are based upon costs at time of acceptance of order, and any increase in costs resulting from laws or regulations of the United States or any state or political subdivision, passed after acceptance of any order, or any increase in freight or insurance rates shall be added to the price.

THE J. CHAS. McCULLOUGH SEED CO.

Beautify Your Garden With... McCullough Roses

Our Roses are grown in Northern Ohio. They are strong, two-year-old, field-grown, budded stock. Field-grown, budded Roses are stronger and better prepared for the garden than other Rose plants. We do not offer any southern-grown Roses.

CULTURE. Give Roses the best location possible. They want well-drained soil which will not become too dry and where there is facility for watering. They need at least a half day's full sunlight. It is seldom that real success can be achieved with Roses unless they have good drainage, some sunlight and shelter from strong winds. Roses are best grown in well-prepared beds fertilized with stable manure, shredded cow manure, bonemeal or special rose food. These fertilizers should be applied when preparing the bed at planting time and

at two-month intervals during the growing season. The dimensions of the bed should suit the varying size and vigor of the plants which it is intended to hold. A width of 4 feet allows the gardener to reach the center of the bed from either side and will accommodate either two or three rows of Roses. **MULCHING** during the summer months is beneficial. It eliminates the need for cultivation and retains moisture in the soil. We recommend Terralite, peat moss, or ground corn cobs for mulching Roses.

All varieties of Roses listed will thrive in the Ohio Valley and have been recommended by the members of the Cincinnati Rose Society.

All-America Award Winners

The everblooming Hybrid Teas in the following list are among the very newest—and all have been recognized for their superiority by All-America Rose Selections. This means that they have been tested in gardens across the country for two years in competition with other new Roses and that a jury of topnotch judges has then given them awards for their outstanding performances.

CAPISTRANO. Pat. 922. Large buds producing extra-large, rose-pink flowers, excellent for cutting. Plants sturdy, upright. Very disease resistant. **\$2.00 each; 3 for \$5.00; \$20.00 per doz.**

CHARLOTTE ARMSTRONG. Pat. 455. A most satisfactory red rose in all respects. Highly resistant to mildew. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

DIAMOND JUBILEE. Pat. 824. Buff-orange flowers, often measure 5 to 6 inches across. Vigorous and disease resistant. **\$2.00 each; 3 for \$5.00; \$20.00 per doz.**

GRANDE DUCHESSE CHARLOTTE. Pat. 774. The buds are a rich claret color, changing to a lovely begonia-rose. Flower has a rich fruity fragrance. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

HORACE McFARLAND. Pat. 730. Buff-salmon flowers change slowly to a pleasing coral-pink. Excellent variety for cutting. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

KATHERINE T. MARSHALL. Pat. 607. Pink blooms appear on erect stems. Flowers are large, coral-pink with a golden glow at the base of the petals. **\$1.35 each; 3 for \$3.40; \$13.50 per doz.**

LOWELL THOMAS. Pat. 595. A brilliant yellow Rose. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

MARY MARGARET McBRIDE. Pat. 537. Clear, deep coral-pink with a touch of gold at the base of the petals. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

MISSION BELLS. Pat. 923. Beautiful deep salmon-pink, flowers measuring 5 inches or more in diameter. Pleasing tea fragrance. **\$2.00 each; 3 for \$5.00; \$20.00 per doz.**

NOCTURNE. Pat. 713. Long, streamlined buds of bright cardinal-red. Pleasing fragrance. A vigorous plant. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

PEACE. Pat. 591. Flowers are extra large and long lasting, their tints of yellow, pale gold, cream and ivory having a varying blush of pink on the ruffled petal edges. **\$2.00 each; 3 for \$5.00; \$20.00 per doz.**

RUBAIYAT. Pat. 758. Buds brilliant red opening to flowers of deep crimson. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

SAN FERNANDO. Pat. 785. Bright vermilion buds with lasting fragrance. Vigorous plant with fine foliage. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

Other Fine Everblooming Hybrid Teas

BLANCHE MALLERIN. Pat. 594. White Hybrid Tea Rose. Lovely for cutting. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

CRIMSON GLORY. Pat. 105. Deep, vivid crimson, shaded oxblood-red. **\$1.35 each; 3 for \$3.40; \$13.50 per doz.**

ECLIPSE. Pat. 172. 2-inch buds held erect on strong stems. Brilliant golden yellow. **\$1.35 each; 3 for \$3.40; \$13.50 per doz.**

GOLDEN ANNIVERSARY. Pat. 806. Old-gold flowers, flushed apricot at times. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

GOOD NEWS. Pat. 426. Deep coppery pink buds opening to enormous blooms of shell-pink with a rich tea fragrance. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

McGREY'S SUNSET. Pat. 317. Glorious orange-yellow blooms overlaid with salmon; large, fragrant. **\$1.35 each; 3 for \$3.40; \$13.50 per doz.**

MME. COCHET-COCHET. Pat. 129. Long-pointed buds of coppery pink, flushed orange. Rich fragrance. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

NEW YORKER. Pat. 823. The bud, of perfect form and texture, opens slowly to a scarlet flower with a rich velvety sheen. **\$2.00 each; 3 for \$5.00; \$20.00 per doz.**

REX ANDERSON. Pat. 335. Handsome buds and well-formed flowers of great size. Cream turning pure white with age. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

Floribunda Roses

BETTY PRIOR. Pat. 340. Unusually tall, and all through the summer it is perpetually forming buds and flowers. **\$1.25 each; 3 for \$3.15; \$12.50 per doz.**

FASHION. Pat. 789. An All-America winner. Luminous coral-pink overlaid with gold, deepening to a reddish tone. **\$2.00 each; 3 for \$5.00; \$20.00 per doz.**

GERANIUM RED. Pat. 811. Its dark oxblood-red buds develop into most fragrant, geranium-red flowers. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

GOLDLOCKS. Pat. 672. Continuously covered with rich golden yellow flowers. **\$1.50 each; 3 for \$3.75; \$15.00 per doz.**

IMPROVED LAFAYETTE. Medium-sized, deep glowing red flowers, suffused with vivid crimson. **\$1.25 each; 3 for \$3.15; \$12.50 per doz.**

PINOCCHIO. Pat. 484. The buds are rich salmon, flushed with gold at the base, gradually changing to clear pink. **\$1.25 each; 3 for \$3.15; \$12.50 per doz.**

WORLD'S FAIR. Pat. 362. Clusters of velvety, 4-inch, rich scarlet flowers. **\$1.25 each; 3 for \$3.15; \$12.50 per doz.**

All 12 of these Popular Roses for \$12.00

All varieties, **\$1.25 each; 6 for \$6.50**
CONDESA DE SASTAGO. Fragrant bicolor. Coppery pink inside and golden yellow outside.

EDITOR McFARLAND. Deep pink. Large, perfect, fragrant flowers on long stems.

ETOILE DE HOLLANDE. Crimson color and fine form. Long cutting stem.

GOLDEN SASTAGO. Of same habit as Condesa de Sastago, but pure yellow.

K. A. VIKTORIA. Fragrant buds open to creamy white flowers.

McGREY'S IVORY. Large, double creamy white flowers.

McGREY'S SCARLET. Scarlet flowers on long stems.

MME. JOSEPH PERRAUD. Apricot-buff. Strong stems, fine for cutting.

POINSETTIA. Flowers clear, scarlet-red. Vigorous, healthy plants.

PRES. HERBERT HOOVER. Large, fragrant, multicolored blooms of scarlet, yellow, cerise and flame.

SISTER THERESE. Long-pointed, silvery yellow buds marked carmine-red.

TALISMAN. Beautiful multicolor of flame, gold and rose-red.

Two Old Reliable Roses

FRAU KARL DRUSCHKI. *Noted for its extreme toughness and vigor, it is excellent when used in place of a shrub. One of the purest white roses.* **\$1.25 each; 6 for \$6.50; \$12.00 per doz.**

RED RADIANCE. Fragrant flowers are cerise-red. **\$1.25 each; 6 for \$6.50; \$12.00 per doz.**

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BLAZE. Scarlet, everblooming climbing Rose. Will grow to a considerable height. **\$1.35 each; 3 for \$3.40; \$13.50 per doz.**

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GOLDEN GLOW. Pat. 263. The pure spectrum-yellow flowers have a tea fragrance. **\$1.75 each; 3 for \$5.00.**

NEWDAWN. Everblooming Dr. W. Van Fleet. Soft pink. Blooms from summer to fall. **\$1.35 each; 3 for \$3.40; \$13.50 per doz.**

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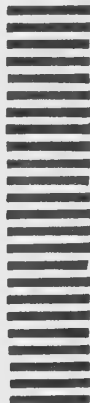
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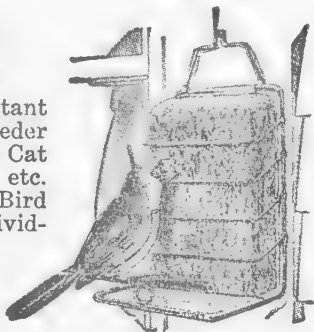
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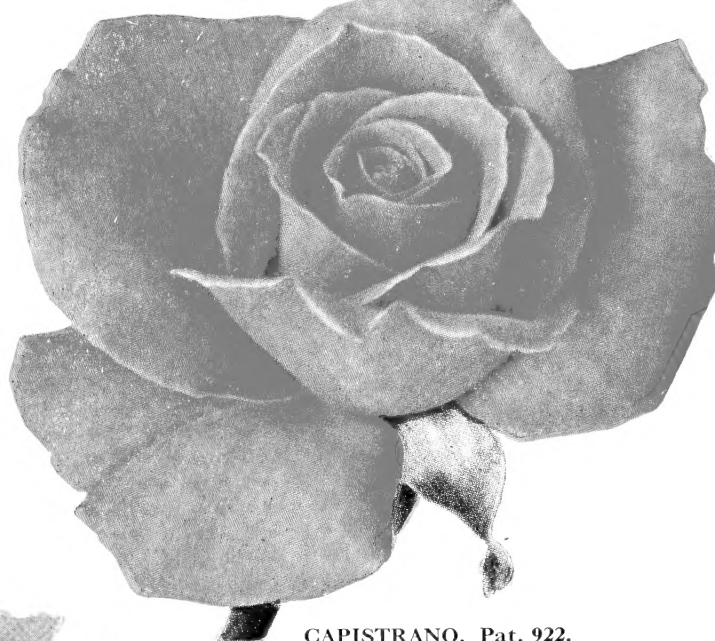
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© **FASHION (Floribunda).** Pat. 789.
\$2.00 each; 3 for \$5.00; \$20.00 per doz.



CAPISTRANO. Pat. 922.
\$2.00 each; 3 for \$5.00;
\$20.00 per doz.



© **DIAMOND JUBILEE.** Pat. 824.
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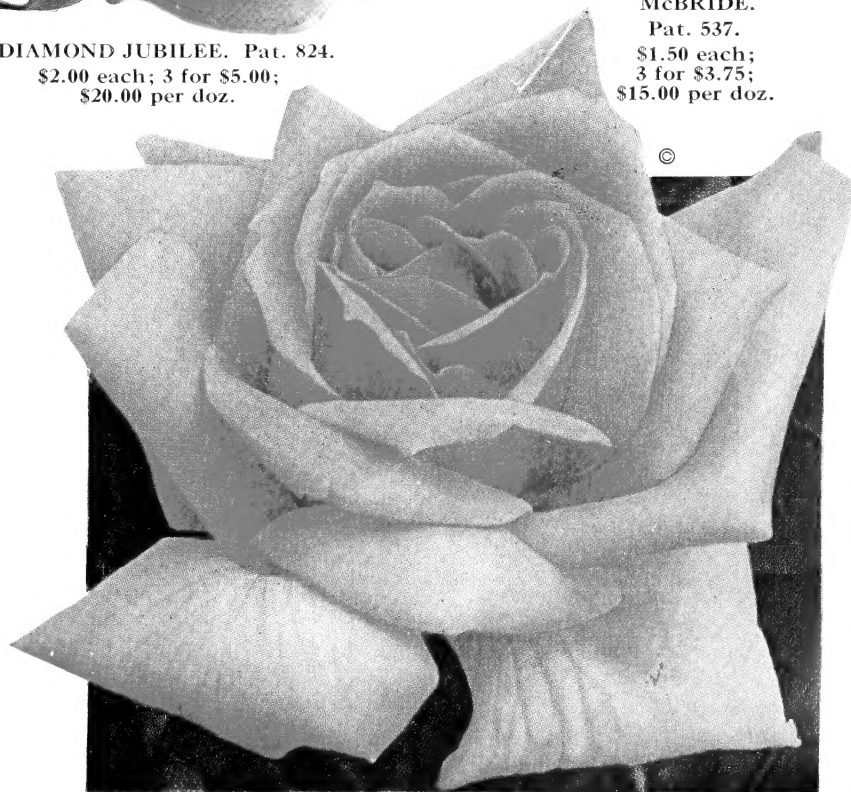
These five are topnotch Roses in every respect, sure to win the admiration of all who see them. Fashion is the Floribunda with such attractive coral blooms, which gives a splendid performance all season. All the others are repeat-blooming Hybrid Teas borne on plants that are just as satisfactory as the flowers.

5 *fine patented* **ROSES**

MARY MARGARET
McBRIDE.
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